Gaps

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Length 20; 2; Indels

Score 13.8; DB 1; Pred. No. 8.6e+02; 0; Mismatches 2;

0.8%; illarity 88.2%; Conservative C

Query Match Best Local Similarity Matches 15; Conserv

1308 CAAGACATACAACTACC 1324

17 caagacaracarcgacc 1

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to perform PCR on cells present in histochemical sections or cytochemical smears, e.g. for biological, forensic or pathological studies. The primer was one of a pair used to amplify papillomavirus DNA from human cervical cancer cells SiHa. A 449 bp PCR prod, was obtd, by this method whereas multiple primer pairs were needed for the same result using conventional PCR methods. See also AAQ34980-6. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cpds. N4-(1-4C alkyl) cytidine 5'-triphosphate (I) and N4-(1-4C alkyl)-2'-deoxycytidine 5'-triphosphate (II) are new. (I) and (II) serve as substrates for RNA and DNA polymerases for incorporation of the N4-(1-4C alkyl)-cytosine moiety into oligo- and polymucleotides. They can be used in DNA sequence analysis, primer extension reactions and nucleic acid amplification. To assess the potential for using N4-methyl-dCTP in PCR amplification, reaction mixts. contg. the canonical nucleotide set were compared to mixts in which dCTP was replaced by the N4- methyl-dytosine analogue, in a PCR experiment designed to amplify a 293 bp sequence of HPV16 DNA. Using a high-temp. regimen the desired fragment was obtained with the canonical dNTPs, but not with N4-methyl-dCTP. A low-temp. regimen, conducted with dCTP or with N4-methyl-dCTP A low-temp. mixt., cleanly produced identical amts. of the expected fragment as the sole amplification product. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New N4-alkyl-(deoxy)cytidine 5'-tri:phosphate cpds. - useful in DNA sequence analysis, primer extension reactions and nucleic acid amplification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N4-methyl-cytidine; N4-methyl-deoxycytidine; triphosphate; CTP; dc substrate; polymerase; cytošine; oligonuclaotide; polymucleotide; sequence analysis; primer extension reaction; PCR; polymerase chain reaction; ampliflication.
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                                                                                                                                                                                                      Query Match 0.8%; Score 13.8; DB 1; Length 20; Best Local Similarity 88.2%; Pred. No. 8.6e+02; Matches 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                    Sequence 20 BP; 2 A; 4 C; 6 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 12; 40pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HPV16/pT713 primer.
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29-SEP-1994
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Peptide transport gene, atptr2a, disease-resistance; fungus-resistance; insect-resistance; pathogen-resistance; herbicide-resistance; transgenic plant; crop improvement; polymerase chain reaction; primer; RT-PCR; ss.

Arabidopsis thaliana.

W09525114-A1 21-SEP-1995.

Peptide transport gene atptr2a PCR primer.

31-JAN-1996 (first entry)

AAT05336;

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AAT05336 standard; cDNA; 20

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RESULT 1045

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An upstream primer (AAT05336) starting at base 1975 of the Arabidopsis thaliana peptide transport atptr2a gene (see AAT05334) and a downstream primer (AAT05337) starting at base 2528 were used in RT-PCR to measure the extent of ATPTR2A transcription in plant tissue. A 569 bp fragment the atptr2a open reading frame is generated
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Primer for amplifying pigment epithelium-derived factor fragment
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88.2%; Pred. No. 8.6e+02;
tive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 GCAGCGTAAAGGATGGA 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 GCAGCGTAAATCATGGA 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAT11661 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 88.2
hes 15; Conservative
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Sequence 20 BP; 2 A; 2 C; 7 G; 9 T; 0 U; 0 Other;

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Plant peptide transport genes - used to increase plant resistance to herbicidal peptide(s), pref. those produced by a plant pathogen.

(UYTE-) UNIV TENNESSEE RES CORP.

Becker JM, Stacey G;

WPI; 1995-336935/43.

95WO-US002708.

10-MAR-1995;

Example 8; Page 40; 79pp; English.

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pigment epithelium-derived factor (PEDF) has both neuronotrophic and gliastatic activity, making it useful in cases where neurons die quickly and glia tend to proliferate (gliosis), e.g. in CNS cell culture, in neurodegenerative diseases and in CNS injury. The neuronotrophic effect of PEDF is especially useful for enhancing survival of neuronal cell cultures intended for use in transplantation. These include cultures of human foetal brain cells and neural retina and photoreceptor cells. The gliastatic activity of PEDF can be applied to inhibiting glial cell cused for inhibiting PEDF can be used for inhibiting PEDF activity or in an immunoassay for determining levels of PEDF in fluid, cellular or tissue samples e.g for determining ageing and/or other degenerative diseases. Eight primers (AAT11661-68) were synthesised base on the cDNA sequence of PEDF and used to amplify fragments of the PEDF gene for later sequencing. Two primers (AAT11661, AAT11662) were used to amplify a 2 kilobase fragment from exon 3 to exon
Pigment epithelium-derived factor, PEDF; neuronal cells; neurons; glial cells; gliastatic; gliosis; central nervous system; CNS; neurodegenerative disease; injury; neuronotrophic; brain cells; barxinson's disease; photoreceptor cells; retina; inhibition; proliferation; immunoassay; antibody; ageing; degenerative disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                          Use of pigment epithelium derived factor - for enhancing neuronal cell survival and inhibiting glial cell proliferation, useful, e.g. in CNS cell culture or to treat neuro-degenerative diseases.
                                                                                                                                                                                                                                                                                                                                         Chader GJ, Becerra SP, Schwartz JP, Taniwaki T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 8; Page 38; 151pp; English.
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94US-00367841.
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Best Local Similarity
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                                                                                                                                                                             14-DEC-1995
                                                                                                          Synthetic.
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Matches
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Mouse Huntington's Disease gene - useful for generating transgenic mice as a model of Huntington's Disease.

(UYBR-) UNIV BRITISH COLUMBIA

Hayden M, Lin B, Nasir J;

WPI; 1997-298677/28

96CA-02178022 95US-00457273

03-JUN-1996; 01-JUN-1995;

02-DEC-1996.

Example 5; Page 31; 69pp; English.

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Neo-specific primer P8, (AAT78982), primer P586 (AAT78983) derived from exon 5 of the mouse Huntington's disease (HD) gene (see AAT78974), and primer P9 (AAT78984) derived from intron 5 of the gene were used in the genotype analysis of heterozygous transpenic mice embryos carrying a targeted mutation in exon 5. The results indicated that loss of function of the endogenous Hdh gene resulted in embryonic lethality during early post-implantation development. Transgenic mice can be used as models of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fas; antibody; human; immunoglobulin; variable region; rheumatism; autoimmune disease; rheumatoid arthritis; therapy; CDR; heavy chain; complementarity determining region; PCR primer; amplify; ss.
                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Primer SHR-16 for H chain of Fas specific antibody coding sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Anti-Fas recombinant antibodies - useful for treating auto-immune diseases, especially rheumatoid arthritis.
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                                                                                                                                                                                                                                                                                                                                                                Score 13.8; DB 1; Length 20;
Pred. No. 8.6e+02;
0; Mismatches 2; Indels
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88.2%;
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Best Local Similarity
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Gaps ö

Score 13.8; DB 1; Length 20; Pred. No. 8.6e+02; 0; Mismatches 2; Indels

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Huntington's disease; animal model; transgenic animal; mouse; therapy; drug screening; mhd gene; polymerase chain reaction; PCR; primer; ss.

CA2178022-A

Synthetic

Mouse Huntington's disease gene exon 5 primer P586.

(first entry)

13-JAN-1998

BP.

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AAT47345-T47374 represent variants of a universal primer sequence (see AAT47344) derived from the bacteriophage vector Ml3mpl8. This sequence can be used as half of the DNA primer of the invention. The primers are used for amplification of a target DNA sequence, and can be used in a multiplex PCR amplification. The primers have the sequence 5'-XY-3', where X is a sequence that does not hybridise to the target sequence; such as this sequence. The melting temperature of a hybrid between X and its complement (in the absence of other sequences) is 60 degrees C. During early cycles of amplification, products are synthesised that contain the chimeric primers on either end. The primers then serve as high stringency recognition sequences for subsequent rounds of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 8; Page 10; 38pp; English.
                                                                                                                                                                                                                                                                                                          AAT47350;
                                                                                                                                                                Query Match
                                                                                                                     antibody
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Matches
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ö protein This sequence represents a primer for the coding sequence for the protein of the invention is a recombinant protein (A), that comprises at least one region corresponding to an immunoglobulin (Ig) variable region which enables the protein to recognise and specifically bind to an antigen, preferably human Fas, and has substantially no more immunogenicity in a human parient than a human antibody. The proteins are useful for treating autoimmune diseases, and proteins are useful arthrits). (A) is based on a murine monoclonal antibody. As the protein lacks the constant region, it has substantially no more immunogenicity in the human patient than a human publication of the protein lacks the constant region, it has substantially no more immunogenicity in the human patient than a human publication. PCR; primer; amplify; polymerase chain reaction; bacteriophage; Ml3mpl8; cystic fibrosis transmembrane conductance regalator gene; multiplex PCR; chimeric primer; genetic screening; mutation detection; CPTR; Wilms Tumour gene; beta-thalassaemia gene; ss. Gaps Universal primer used for multiplex DNA amplification - allows simultaneous amplification of multiple DNA target sequences for high through-put genetic screening. ö 0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; Live 0; Mismatches 2; Indels Variant #6 of universal primer sequence for M13mpl8. Sequence 20 BP; 2 A; 8 C; 2 G; 8 T; 0 U; 0 Other; 1452 TCCATTCTTCCTCAGTC 1468 rccarrcrcrcrcrcrc 20 AAT47350 standard; DNA; 20 BP 95US-00474450. 96WO-US009637. (first entry) Conservative (GENZ ) GENZYME CORP WPI; 1997-052372/05. Local Similarity 10-SEP-1997 WO9641012-A1 07-JUN-1995; 15; 19-DEC-1996 Synthetic. Shuber AP;

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This antisense oligonuclectide is specifically hybridisable with selected DNA or RNA deriving from the puromycin-sensitive aminopeptidase (PSA)-99. This oligonuclectide is used for dignosing conditions associated with PSA expression. The human PSA-99 (875 amino acids) and the murine PSA-99 (970 amino acids) both exhibit PSA activity and can be used to generate anti-PSA artibodies. Cell lines which produce the antibody and host cells transfected with vector containing nucleic acid molecules encoding the PSA and the oligonuclectides can be used in assays for identification of agents which act by targeting PSA, for modulating PSA activity or agents which act by targeting PSA, for modulating PSA activity of endogenous PSA substrates, proliferation rate or viability of cells or induce apoptosis within cells by inhibiting PSA activity. Agents which including the psa activity in cells with modulation of the amount of PSA in cells due to modulation of PSA synthesis, may be used in treatment of proliferative diseases, including tumours such as leukaemias and
                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Isolated protein with puromycin-sensitive aminopeptidase activity - which may be used in treatment of proliferative disorders, including cancer and
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  amplification. As a result, the annealing efficiency of different primers
                  and their targets in a multiplex amplification reaction is normalised, thereby reducing preferential amplification of certain targets. The chimeric primer comprises a 5' universal domain and a 3' target-specific domain. They are used for the simultaneous PCR amplification of multiple DNA targets in a sample. The primer containing AAT47344 is particularly useful in high-throughput genetic screening for detecting the presence of multiple defined targets e.g. to detect mutations in genes like the cystic fibrosis transmembrane conductance regulator (CPTR), the Wilms Tumour, and the beta-thalassaemia genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             psoriasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Puromycin-sensitive aminopeptidase (PSA) antisense oligonucleotide 2.
                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Puromycin-sensitive aminopeptidase; PSA; treatment, cancer; psori
proliferative disorder; hybridise; antisense oligonucleotide; ss.
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88.2%; Pred. No. 8.6e+02;
iive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                      Sequence 20 BP; 4 A; 5 C; 8 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                        15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (NOVS ) NOVARTIS AG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1997-512727/47
                                                                                                                                                                                                                                                                                                    Local Similarity
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0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
tive 0; Mismatches 2; Indels
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                                                                                          1308 CAAGACATACAACTACC 1324
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97US-0048740P.
                                                                                                                                    19 caagacaracarcgacc 3
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                                                                                                                                                                                                                                                     AAV85967 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                               10-FEB-1999 (first entry)
Query Match
Best Local Similarity 88.2
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1998-594573/50.
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Phillips MS,
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05-JUN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                   AAV85967;
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                                                                                                                                                                                                                                   AAV85967
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequences shown in AAV33257 to AAV33263 represent primers used for the PCR amplification of the human papillomavirus (HPV) type 16 genome contained in the human certical cancer cell line SiHa. The invention provides a thermal cycler sample compartment optimised for holding and controlling he temperature of one or more microscopes which facilitates thermal cycling. It also contains a device (Barrier) for protecting a microscope slide from fluid or vapour when the slide is sealed in the device, comprising a plastics material that has high thermal in the conductivity, and is impervious to fluid or vapour, and is dimensioned so as to receive the slide. The new thermal cycling compartment is useful for performing in situ PCR for detection of target nucleic acid sequences directly from cells fixed onto a microscope slide, used in the field of cell biology, forensic science and clinical, veterinary and plant pathology. The modified heat blocks increase the speed and reliability of in situ PCR performed on microscope slides by accelerating and rendering more uniform the heat transfer which occurs during thermal cycling.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New thermal cycler for in-situ PCR on microscope slides - and device for protecting microscope slides from fluid or vapour.
                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human papillomavirus, HPV, human, cervical cancer cell line, SiHa, thermal cycler sample compartment, veterinary, thermal conductivity, in situ PCR, nucleic acid detection, PCR primer, ss.
                                                                                                                                      ö
                                                                                          Length 20;
                                                                                        Query Match
0.8%; Score 13.8; DB 1; Length 20
Best Local Similarity 88.2%; Pred. No. 8.6e+02;
Matches 15; Conservative 0; Mismatches 2; Indels
carcinomas or epithelial disorders like psoriasis
                                            Sequence 20 BP; 3 A; 7 C; 4 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HPV type 16 gene amplifying 5' primer PV3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (HOFF ) HOFFMANN LA ROCHE & CO AG F. (UNNY ) UNIV NEW YORK STATE RES FOUND.
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                                                                                                                                                                                  179 GAGGCATAGACAAGACC 195
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                                                                                                                                                                                                           GAGGGATAGACAAGCCC 2
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92EF-00306701.
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                                                                                                                                                                                                                                                                                                                                               AAV33259 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                          (revised)
(first entry)
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Human papillomavirus.
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07-DEC-1998
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XX AAV33259/
XX AAV33
DT 25-NG
DE HPV 1
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XX Human
XX Huma
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LRP5; LDL-receptor related protein; LRP-3; IDDM; diagnosis; endocytosis; insulin dependent diabetes mellitus; autoimmune disease; glomerulonephritis; inflammation; viral infection; osteoporosis; hypercholesterolemia; Alzheimer's disease; low density lipoprotein; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated LDL-receptor related protein - used to develop products for treating, e.g. elevated triglyceride levels, diabetes, autoimmune disorders, inflammation or Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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Hey P, Kawaguchi Y, Merriman TR, Metzker ML, Nakagawa Y;
Phillips MS, Twells RCJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mouse LRP-3 cDNA PCR primer 378r (mulrp3 3r).
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rapidly cycle temperature of sample.
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                                                                                                                                                    98WO-US004041
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Best Local Similarity 88.2%;
Matches 15; Conservative C
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                                                                                                                                                                                                                      Blumenfeld M, Chaplin J;
                                                                                                                                                                                                 (MINU ) UNIV MINNESOTA
                                                                             Human papillomavirus.
                                                                                                                                                                                                                                               WPI; 1998-495869/42.
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modified_base
                                                                                                                                                                        03-MAR-1997;
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                                                                                                                             11-SEP-1998
                                                                    Synthetic
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AAV69985
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The primers AAV43732-V43776 were to produce cancer associated gene fragments which can be used to detect cancer cells in tissue samples or biological fluids. They are detected by monitoring the change in mRNA expression as compared to normal tissue of one or more cancer-associated genes whose cDNA stringently hybridises to the nucleic acid fragments. The change in expression may be an increase or a decrease compared to normal lissue. The mRNA expression may be determined by PCR, Northern blotting or ribonuclease protection assay, or by determining the change in the amount of protein encoded by the gene(s) as compared to normal tissue, for example by using a labelled antibody recognising the protein. Detection of cancer cells for cancer diagnosis, including detection of metastatic cancer cells in tissues other than the primary tumour site
                                                                                                                                                                                                                                                                                                                                                                                                Detection of cancer cells in tissue samples - by changes in mRNA expression compared to normal tissue of specific cancer-associated gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gарв
                                                                                                                                                                      ss; cancer; PCR; Northern blotting; ribonuclease protection assay; diagnosis; metastatic cancer; primer; amplification.
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                                                                                                                                                                                                                                                                                                                                                     Hino F,
                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 67; 92pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                     Asada K,
                                                                                                                                                  Cancer associated gene primer 2.
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1435 GAGGATGCCATGAACA 1451
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                                                                               AAV43733 standard; DNA; 20 BP.
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             20 GAGGAGGCCATCAAACA
                                                                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                   Mukai H,
                                                                                                                                                                                                                                                                                                                                                                           WPI; 1998-467552/40.
                                                                                                                                                                                                                                                                                                     21-FEB-1997;
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                                                                                                                                                                                                                                                       27-AUG-1998
                                                                                                                                                                                                            Synthetic.
                                                                                                    AAV43733;
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Matches
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Sequences shown in AAV54677 to AAV54683 represent primers used for the PCR amplification of the Human papillomavirus (HPV) gene contained in the human cervical cancer cell line SiHa. These are used in the course of the invention which provides a thermal cycling device comprising a ceramic sample plate supporting a ceramic sample plate supporting a flat thermally coupled to the plate ample and a thermal sensor, a heater thermally coupled to the plate ample and a colorer for the substrate. The device atther maintains the temperature of the sample or subjects it to thermal cycling. The thin ceramic plate permits very rapid heat transfer to a sample on a microscope slide and this thermal cycling devise can be used for PCR amplification or hybridisation of target nucleic acid on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
Human papillomavirus; HPV; thermal cycling device; ceramic sample plate; biological sample; thermal sensor; heater; cooler; thermal cycling; rapid heat transfer; microscope slide; PCR amplification; hybridisation; target nucleic acid; PCR primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Thermal device for PCR amplification or hybridisation of target nucleic acid on microscope slide - has ceramic sample plate supporting flat substrate for sample and heater and cooler controlled to maintain or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gabs
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Pred. No. 8.6e+02;
0; Mismatches 2; Indels
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New nucleic acid encoding human cyclin-dependent kinase-10 - used e.g. to identify modulators of cell cycle progression for treating cancer or immune cell proliferation.
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                                                                                                                                                                                                                                                           Gene-specific primer PK22L234 and adapter primer AP1 (see AAV32935) were used in a RACE PCR technique for cloning a 5' coding region of novel human cyclin-dependent kinase 10 (CDK10) cDNA, using adapter-ligated human placenta cDNA as template. Nested primers (see AAV32936-37) were used in a second PCR, to produce an approximately 600 bp product. A 3' fragment was identified by database search, and a full-length sequence (see AAV32932) was produced in vector pLITMUGSB:CDK10. The CDK10 protein product (see AAW49083) is used e.g. to identify modulators of cell cycle progression and for treating cancer or immune cell proliferation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New vector for plant transformation - useful for producing toxins that are specific to certain plants, or those which act on membrane systems and/or other cellular structures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Plant transformation, T-DNA, toxin, transgenic; transgenic food;
binary vector; PCR primer; barnase; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.8%; Score 13.8; DB 1; Length 20; 38.2%; Pred. No. 8.6e+02; ved. No. 8.10e+02; Indels ive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Barnase open reading frame fragment amplifying primer.
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Tigelaar H, Elzinga N;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 5 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                        Example 1, Page 27; 58pp; English.
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Best Local Similarity 88.2%;
Matches 15; Conservative
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Hoekstra S,
(MERI ) MERCK & CO INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (MOGE-) MOGEN INT NV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-106063/09.
                                                                                         WPI; 1998-447213/38
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Stuiver MH,
Dekker BMM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-JAN-1999.
                                            Gerhold DL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 1057
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  à
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV69978 to AAV69988 represent antisense oligonuclectides which are specifically hybridiaable with a region of a nucleic acid encoding human c-Jun protein. The antisense compound regulates the expression of the coligonuclectides which regulate the c-Fos protein. The antisense oligonuclectides which regulate the c-Fos protein. The antisense oligonuclectides are used for the diagnosis and treatment of diseases or disorders associated with Activating Protein lexpression, of which compositions as c-Fos and/or c-Jun together with a carrier and a chemotherapeutic agent. They are used to regulate the expression of c-Fos or c-Jun in cells or tissues, preferably by inhibiting metastasis. They also regulate cell cycle expression and can be used to regulate cell cycle expression and can be used to treat an animal with, or being prone to, a hyperproliferative disease
                                                                                                                                                                                                                                                                                                                                                                         Antisense oligonucleotides regulating Activating Protein 1 subunits - hybridise with c-fos and c-jun mRNA, used for regulating metastasis, cell cycle expression and hyperproliferative disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CDK10; cyclin-dependent protein kinase; cell cycle; human; cancer; cell proliferation; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human cyclin-dependent protein kinase CDK10 cDNA primer PK22L234
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ch 0.8%; Score 13.8; DB 1; Length 20; 1 Similarity 88.2%; Pred. No. 8.6e+02; 15; Conservative 0; Mismatches 2; Indels
  /*tag= a
/note= "phosphorothioate linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 2 A; 11 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                       Dean NM, Mckay R, Miraglia L, Baker B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 12; Page 71; 120pp; English.
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97GB-00007491.
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                                                                                                                                                                                                                                             (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                               WPI; 1998-609906/51
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Best Local Similarity
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                                                                                                                                                      14-APR-1998;
                                                                                                                                                                                                  14-APR-1997;
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14-APR-1997;
                                                                 WO9846272-A1
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             cellular structures. Examples of genes include those encoding ribozymes against endogenous RNA transcripts, proteins evoking hypersensitive reactions, and RNA transcripts used for antisense/or suppression inhibition of gene expression. The polymucleotide sequence contained the vectors prevents the transfer of DNA sequences beyond the T-DNA transgenic This avoids contamination of transgenic plants and/ or transgenic food with vector DNA. Sequences AAXO5690-91 represent primers used for the PCR amplification of the barnase open reading frame. This is used in the construction of a barnase expression cassette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention provides HIV cofactor inhibitors that contain oligonucleotides with a base sequence complementary to the CXCR4 or CCR5 genes. Such inhibitors can be formulated into drug compositions for prevention or treatment of HIV infection, with inhibition of expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of CXCR4 or/and CCR5 gene. Sequences AAZ31244-306 represent antisense oligonuclectides to the CCR5 gene
                                                                                                                                                                                                                                                               Gaps
certain plants, or those which act on membrane systems and /or other
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                          0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cofactor inhibitors,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wada A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 3 A; 6 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                          Seguence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCR5 gene inhibiting antisense oligo AS(s)-60.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antisense oligonucleotide-based HIV cofactor
compositions for treatment of HIV infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Yamamoto N, Kimura T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 6; Page 16; 59pp; Japanese.
                                                                                                                                                                                                                                                                                                 115 CCGATCGCCATGGATCG 131
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Best Local Similarity 88.2.
Best Local Similarity 86.2.
These 15; Conservative
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Best Local Similarity
Matches 15; Conserv
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                                                                                                                                           Vaccine, eye disease; conventional trachoma, nonendemic trachoma; paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis; nongonococcal uretritis; epidymitis; cervicitis; salpingitis; PCR primer; bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.
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                                                                                                                   PCR primer used to amplify an ORF of Chlamydia trachomatis.
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Pred. No. 8.6e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Genome sequence of Chlamydia trachomatis.
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97FR-00016034.
98US-0107077P.
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                           AAZ04231 standard; DNA; 20
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                                                                                     (first entry)
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Best Local Similarity 88.2
Matches 15, Conservative
                                                                                                                                                                                                                                      Chlamydia trachomatis.
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                                                                                                                                                                                                                                                                                                                                                                                                                       (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                27-NOV-1998;
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04-NOV-1998;
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                                                        AAZ04231;
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AAZ02916
RESULT
AAZ0423
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Vaccine; eye disease; conventional trachoma; nonendemic trachoma; paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis; nongonococcal uretritis; epidymitis; cervicitis; malpingitis; PCR primer; bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.
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Pred. No. 8.6e+02;
0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                               Genome sequence of Chlamydia trachomatis.
                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 1564; 1755pp; English.
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97FR-00016034.
98US-0107077P.
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Chlamydia trachomatis.
                                                                             Synthetic.
Chlamydia trachomatis.
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Best Local Similarity
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17-DEC-1997;
04-NOV-1998;
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Deletion sequence oligonuclectide; sensor array; eukaryotic pathogen; probe; cellular adhesion modulator; cellular proliferation modulator; human retrovirus; human immunodeficiency virus; non-human retrovirus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New compositions comprising sensor arrays made up of unique probe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; ve 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 4 A; 3 C; 7 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                               Genome sequence of Chlamydia trachomatis.
                                                                                                                                                                                                        Disclosure; Page 1754; 1755pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Deletion sequence oligonucleotide 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCCAGAACCTGCTCATC 1005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP.
                                      97FR-00015041.
97FR-00016034.
98US-0107077P.
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             98WO-IB001939
                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 88.2%;
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Srivatsa GS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-205198/17.
                                                                                                                                                    WPI; 1999-371125/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HIV; primer; ss
                                                                                              (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO9911820-A1
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             27-NOV-1998;
                                        28-NOV-1997;
                                                     17-DEC-1997;
04-NOV-1998;
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                                                                                                                         Griffais R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 1062
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ID AAX2
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This invention describes a novel composition comprising a number of sensor arrays, where each array comprises a unique probe oligonucleotide, which is the reverse complement of part of a unique target which is the reverse complement of part of a unique target oligonucleotides present in a mixture of target deletion sequence oligonucleotides. The compositions form a method for characterizing a sample of target deletion oligonucleotides which are labelled and hybridize with the probe oligonucleotides which are labelled and oligonucleotides and their targets are represented in AAX2348-X3709. Oligonucleotides and their targets are represented in AAX2348-X3709. Oligonucleotides and their targets are represented in AAX2348-X3709. Oligonucleotides characterized by the method form pharmaceutical compositions that are useful for modulating cellular adhesion or proliferation, and being active against a eukaryotic pathogen, a human immunodeficiency virus (HIV), or a non-human retrovirus, including infilenza virus, Epstein Barr virus, Respiratory Syncytial Virus or cytomegalovirus (CMV). The compositions enable characterization of deletion sequences, and quantification of different specificity of the oligonucleotides having related, also, if the specificity of the oligonucleotides and may be performed using the reverse complement is not modified, the method may be performed using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine; neutralising epitope; PCR primer; ss.
oligonucleotides - useful for characterizing a sample of target deletion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
vative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCR primer used to amplify an ORF of Chlamydia pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 0 A; 5 C; 5 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genome sequence of Chlamydia pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 1480; Disclosure; 1912pp; English
                                                       Example 1; Page 89; 163pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          133 ATGAAGAAGATCAAACG 149
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98US-0107078P
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18 AAGAAGAAGAGCAAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAX92036 standard; DNA; 20
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les 15; Conservative
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                    oligonucleotides
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
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Matches
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AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX1990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent critis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAX34584- AAX35879) can be used nucleotides sequences can also be used as immunogenic compositions as vaccines. Vectors containing C. pneumoniae especially where the vector directs the expression of a neutralising epitope of C. pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention provides a DNA molecule comprising a sequence of characteristic senceding an alphalF-subunit of a mammalian retinal calcium channel (RCC), including a human and antice, a mammalian retinal calcium subunit and orthologs of the human and murine alphalF-subunit, a murine alphalF-subunit and orthologs of the human and murine alphalF-subunits. The RCC gene may be used to develop products for diagnostic tests, for incomplete CSMB and risk assessment in affected families. The RCC gene can provide information as to the basic defect in this retinal conditions, which could lead to effective methods for treatment or cure of the disorder. As the associated features of myopia, nystagmus and strabismus frequently observed in patients with incomplete CSNB may be caused by calciumtogulated development pathways, identification of the RCC gene may help to elucidate the molecular details of eye development and which may lead to treatment for related eye disorders or diseases. Sequences AAZ46520-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Retinal calcium channel; RCC gene; alphalF-subunit; retinal disorder; myopia; nystagmus; strabismus; calcium-regulated development pathway; eye disorder; human; EST; expressed sequence tag; CSNB; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated mammalian retinal calcium channel gene, used to develop products for the diagnosis and treatment of incomplete congenital stationary night blindness and related disorders.
                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                     0.8%; Score 13.8; DB 1; Length 20; 88.2%; pred. No. 8.6e+02; ative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                Seguence 20 BP; 6 A; 6 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human EST JRL4Al amplifying forward primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure, Page 15; 55pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                            1468 CTGGGGGAGCGGATCCA 1484
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAZ46520 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13-MAR-2000 (first entry)
                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 88.2
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             02-JUN-1999;
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AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the pharmaceutical agents acting on a disease as well as other treatment.

N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3056, 3157, 327, 3297 and 3357, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel biallelic markers used to construct a high density disequilibrium
   represent primers for amplifying the human expressed seqeunce tsg (EST)
                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human biallelic marker upstream amplification primer SEQ ID NO:4109.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human genome, biallelic marker, high density disequilibrium map, genomic map, haplotype, phenotype, polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; amplification; single nucleotide polymorphism; SNP; PCR primer;
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                                                                                                                                                                               Query Match 0.8%; Score 13.8; DB 1; Length 20; Best Local Similarity 88.2%; Pred. No. 8.6e+02; Matches 15; Conservative 0; Mismatches 2; Indels
                                                                                                             Sequence 20 BP; 1 A; 6 C; 2 G; 11 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                1698 TTACTCTGCCTACCT 1714
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98US-0109732P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       diagnosis; ss
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23-NOV-1998;
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AAZ69753/C
ID AAZ69755/X
XX AAZ6975
XX AAZ6975
XX AAZ6975
XX Human I 
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The invention relates to novel serine proteases designated BSSP6

(AABI1712-B11714), and to nucleic acids encoding them (AAA61763-A61765).

The invention also relates to vectors and transformants comprising BSSP6

nucleic acids; transgenic animals in which the expression level of BSSP6

can be varied; and an mBSSP6 knockout mouse. The invention additionally

encompasses anti-BSSP6 antichodies and methods of production of such

antibodies, methods of BSSP6 detection using the antibodies, and the use

of BSSP6 proteins or fragments as diagnostic markers for certain medical

conditions. Nucleotides encoding BSSP6 were initially isolated in a human

brain cDNA library using degenerate PCR primers (AAA6795-A61796) based

on conserved regions of serine proceases. The BSSP6 serine proteases and

nucleotides encoding them are useful in detecting homologues, mutants and

prostate gland, placenta, testis and spleen) as diagnostic markers for

conditions such as Alzheimer's disease, epilepsy, cancer, inflammation,

prostate pland, placenta, testis and spleen) as diagnostic markers for

conditions such as Alzheimer's disease, epilepsy, cancer, inflammation,

prostate pland, placenta, testis and spleen) as diagnostic markers for

conditions such as Alzheimer's disease, epilepsy, cancer, inflammation,

primers AAA61775-A61784 and AAA61795, while primers AAA61765-A61796

AG1792 were used to isolate and annulify mutine BSSP6 cDNA (AAA61764).

Primers AAA61768-A61774 were used to construct plasmids used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Serine protease BSSP6, useful in detecting homologs, mutants and polymorphic variants as markers for diagnosis of Alzheimer's disease, epilepsy, cancer, inflammation, infertility and prostate hypertrophy, using blood or other tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                            BSSP6; serine protease; human; hBSSP6; mouse; mBSSP6; brain; diagnostic marker; antibody; transgenic animal; Alzhaimer's disease; epilepsy; cancer; inflammation; infertility; pancreatitis; prostatic hypertrophy; PCR primer; ss.
                                                                                                                                                                                                                                            Human serine protease BSSP6 (hBSSP6), RACE PCR primer, SEQ ID NO:23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Yamaguchi N, Mitsui S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 2 A; 7 C; 3 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 0.8%; Score 13.8; DB 1; Best Local Similarity 88.2%; Pred. No. 8.6e+02; Matches 15; Conservative 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 30; 94pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Okui A, Kominami K,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (FUSO ) FUSO PHARM IND LTD.
18 ATCACAACACAGACATA
                                                                                                               AAA61782 standard; DNA; 20
                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-400067/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200031257-A1.
                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-NOV-1998;
                                                                                                                                                                                                      23-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                02-JUN-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Vemura H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention
                                                                                                                                                        AAA61782;
                                                                        RESULT 1066
AAA61782/c
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Gaps

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0.8%; Score 13.8; DB 1; Length 20; ilarity 88.2%; Pred. No. 8.6e+02; Conservative 0; Mismatches 2; Indels

Query Match Best Local Similarity Matches 15; Conserv

.20
 /\*tag= a
 /note= "Phosphorothioate linkages"

99US-00344001. 99US-00344001

Cowsert LM;

Location/Qualifiers

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Antisense compound specifically hybridizing and inhibiting the expression of human Jun N-terminal kinase kinase-2 is useful for treating infection,
                                                                           Human, jun N-terminal kinase kinase-2; JKK-2; modulation; tumour;
antiinflammatory; cytostatic; antiinfectious; infection; inflammation;
detection; antisense therapy; phosphorothiaote; ss.
                                      Human jun N-terminal kinase kinase-2 antisense oligonucleotide #33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 3; Col 40; 31pp; English.
25-AUG-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inflammation and tumor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-338506/29.
                                                                                                                                                                                                   Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                   24-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                           24-JUN-1999;
                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                            25-APR-2000.
                                                                                                                                                                                                                                                                                                     US6054440-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      per primers AAX89470-X89471 are used to screen a BAC library for the presence of a 14-3-3 sigma nuclectide sequence. 14-3-3 sigma is a member of the 14-3-3 protein family and is also known as HMS1 or stratifin. 14-3-3 sigma expression is regulated by p53 and exogenous expression of 14-3-3 sigma results in G2 block. The 14-3-3 sigma nuclectide and amino acid sequences are used in the invention to develop agents for the diagnosis, susceptibility determination and treatment of cancer. The amino acid sequence can be used in method for suppressing the growth of tumour cells. The 14-3-3 sigma polypeptides can mediate cell cycle arrest upon damage to cellular DNA. 14-3-3 sigma probes can be used for diagnosing, testing cancers. They can also be used to treat other proliferative diseases, e.g. psoriasis, polype, warts, and inflammatory diseases. The contract of the proposition of the contraction of the contracting the contraction of the contraction of the contraction of the c
                                                                                                                                                                                                                                                                                               14-3-3 sigma; HME1; stratifin; p53; diagnosis; cancer; psoriasis; polyp; psoriasis; wart; inflammatory disease; proliferation; ss; PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Use of 14-3-3 sigma polypeptides and nucleic acids for the diagnosis or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.8%; Score 13.8; DB 1; Length 20; 38.2%; Pred. No. 8.6e+02; ve 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                             PCR primer used to screen a BAC library for 14-3-3 sigma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kinzler KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 3; Page 33; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               proliferation and growth of cells
  9
                                                                                                                                       AAX89471 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            97US-0069416P.
98US-00210748.
                         20 GAGCACCAGAAGTGTGA 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98WO-US026924.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ilarity 88.2%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vogelstein B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYJO ) UNIV JOHNS HOPKINS
                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 treatment of cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-022907/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
es 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hermeking H,
                                                                                                                                                                                                                                                                                                                                                                                                      409931240-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-DEC-1997;
                                                                                                                                                                                                                    15-FEB-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                               24-JUN-1999
                                                                                                                                                                                                                                                                                                                                                               Synthetic.
  44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                  1067
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Loca
Matches
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The present invention describes an antisense compound (I) of 8-30 nucleobases, specifically hybridising to, and inhibiting expression of, human jun N-terminal kinase kinase-2 (JKK-2). Also described is a method of inhibiting the expression of human JKK-2 in human cells or tissues, comprising contacting the cells or tissues, with (I), in vitro. (I) has suitinflammatory, cytostatic and antiinfectious activities. (I) is useful for inhibiting the expression of JKK-2 in human cells or tissues and prevents or delays infection, inflammation or tumour formation associated with altered expression of JKK-2 in human is also useful for detecting the levels of JKK-2 in a sample. The present sequence represents a phosphorothioate antisense oligonucleotide for human JKK-2, from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cytochrome P450; NADPH reductase; monooxygenase; CYF52A; CPR; POX; omega hydroxylase complex; omega-oxidation; fatty acid; alkane; alpha-omega-dicarboxylic acid production;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C. tropicalis CYP52A5A/CYP52A5B QC-RT-PCR primer, SEQ ID NO:47.
                                                                                                                                                                                                                                                                                                                                                                                                                  Score 13.8; DB 1; Length 20;
Pred. No. 8.6e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 2 A; 4 C; 10 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       974 ACCGAGACCICAAGCCC 990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     88.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20 Acceceacercaaeccc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAA30532 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                     present invention
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21-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAA30532;
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Gaps

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843 TGAGTACCTGGACAAGG 859

18 TGAGTACCGGGAGAAGG

AAA29848 standard; DNA; 20

AAA29848

AAA29848/ ID AAA2 XX AC AAA2

Anti-human Fas antibody CH11 H chain cDNA specific primer SHR-16.

(first entry)

16-NOV-2000

AAA78243;

AAA78243 standard; DNA; 20 BP.

RESULT 1070

Antirheumatic agent; immunoglobulin M; IgM; apoptosis inducer; immunosuppression; autoimmune disease; treatment; rheumatism;

anti-Fas antibody; primer; ss.

JP2000154149-A.

Synthetic.

99JP-00263984. 98JP-00264598,

17-SEP-1999;

06-JUN-2000.

(SANY ) SANKYO CO LID. WPI; 2000-454476/40.

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The invention relates to 12 novel genomic DNA sequences and proteins which are components of the omega hydroxylase complex of Candida tropicalis ATCC 20366. The DNA sequences (AAA30566-A3057) respectively encode cytochrome P450 NADPH oxidoreductases CPRA and CPRB (AAY90596, AAY90597) and cytochrome P450 monooxygenases CPRA and CPRB (AAX90596, CYP52A2A). CYP52A2A, CYP52A2A, CYP52A2A, CYP52A3B, CYP5A3B, CYP5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   fluids, agricultural chemicals, pharmaceuticals, dyes, surfactants, adhesives and fragrances. The CPR and CYR nucleic acids and proteins enable inexpensive large scale production of industrially useful dicarboxylic acids. Sequences AAAAJS22-AD3543 represent QC-RT-PCR primers used in an exemplification of the invention to amplify the Candida tropicalis ATCC20366 CPR, CYP and beta-oxidation POX gene target mRNA.
quantitative competitive reverse transcription-PCR; QC-RT-PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cytochrome P450 nicotine adenine dinucleotide phosphate oxidoreductase and cytochrome P450 monooxygenase nucleic acids and encoded proteins, useful for overproducing dicarboxylic acids.
                                                                                                                                                                                                                                                                                                                                                                                Eirich LD, Eshoo M, Madduri KM, Cornett CA;
Loper JC, Gleeson M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ch 0.8%; Score 13.8; DB 1; Length 20; 1 Similarity 88.2%; Pred. No. 8.6e+02; 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Updated on 15-SEP-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 11; Page 44; 200pp; English.
                                              Candida tropicalis; ATCC20366
                                                                                                                                                                                                 99WO-US020797.
                                                                                                                                                                                                                                                   98US-0103099P.
                                                                                                                                                                                                                                                                                                                                                                                Craft DL,
Tang M, 1
                                                                                                                                                                                                                                                                                                                               (HENK ) HENKEL CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-317711/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                  WO200020566-A2.
                                                                                                                                                                                                                                                     05-OCT-1998;
10-MAR-1999;
                                                                                                                                                                                                    10-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                            Brenner AA,
                                                                                                                                                   13-APR-2000,
                                                                                                                                                                                                                                                                                                                                                                                   Wilson CR,
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Anti-human Fas humanizing antibody-containing antirheumatic agents.

Disclosure; Page 16; 109pp; Japanese.

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The present invention relates to antirheumatic agents which comprise as active ingredients an immunoglobulin M (IgM) protein. The IgM protein does not include a J segment, has apoptosis inducing activity, and consists of a light and heavy chain polypeptide produced synthetically. The agents of a light and heavy chain polypeptide produced synthetically. The agents of the invention exhibit antirheumatic and immunosuppressive activity and can be used to treat autoimmune diseases, especially rheumatism. The IgM molecule used in the invention has human Fas-antigen binding properties. Included in the invention are nucleotide sequences of the invention are nucleotide sequences of corresponding protein sequences (see AAB12913-B12918 and AAB12919), and nucleotide sequences of the humanised anti-human Fas Ig CH11 (see AAB1201-A7802) and the corresponding protein sequences (see AAB12913-B12918), and nucleotide are anti-human Fas antibody CD peptides (AAB12902-B12907). Primers specific for the anti-human Fas antibody, light, heavy and kappa chains used in the invention are represented by sequences AAA78317-A78318 and AAA78335-A78337, while humanised anti-hum an Ig DNA used in the invention are represented by sequences AAA78377-A78318 and AAA78335-A78337, while humanised anti-Pas Ig DNA sequencing primers are represented by sequences AAA78331-A78333 and AAA78337. Primer represented by sequences AAA78331. And AAA78337. Primer sequences AAA78327-A78333 and AAA78337. Primer represented by sequences AAA78331-A78334 and AAA78337. Primer represented by sequences AAA78327-A78334 and AAA78337. Primer represented by sequences AAA78337. Primer represented by sequences AAA78337. Primer represented by sequences AAA78337. Primer represented by a Bacific for murine Ig DNA, and are used in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
ve 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 2 A; 8 C; 2 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the production of the agent of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1452 TCCATTCTTCCTCAGTC 1468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAZ59944 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 recarrecreterere
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 88.23
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAZ59944;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 1071
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HXXXH
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Gaps

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1010 AGAGGGGAGAGCTCAAG 1026

Matches

2 AGAGGGCAGGGCTCAAG 18

AAA92148 standard; DNA; 20 BP.

Mon May

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Drug exposure; drug abuse; gene expression; EST; expressed sequence tag; identification; tolerance; addiction; therapy; screening; cellular response; ethanol; expression analysis; Northern blot; dopamine beta-hydroxylase; DBH; norepinephrine; reverse transcriptase-PCR; RT-PCR primer; ss.
                                                                                                                                                                                                                           Novel methods for evaluating an organisms response to alcohol used to evaluate drug treatment and identifying susceptibility to alcohol.
       Human dopamine beta-hydroxylase (DBH) PCR primer, SEQ ID NO:2.
                                                                                                                                                                                                                                                     Example 3; Page 68-69; 98pp; English.
                                                                                                                                                                                          Miles MF, Lai C, Lockhart DJ
                                                                                                                                              98US-0090268P.
                                                                                                                             99WO-US013839
                                                                                                                                                                        (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                          WPI; 2000-147195/13
                                                                                                                             22-JUN-1999;
                                                                                                                                              22-JUN-1998;
21-JUN-1999;
                                                                          Homo sapiens
                                                                                           W09967267-A1
                                                                                                            29-DEC-1999.
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The invention relates the identification or genes whose expression levels ethanol, stimulants, opiates). The methods of the invention monitor the response of a cell to a drug of abuse, and comprise contacting the cell with the drug of abuse, and comprise contacting the cell with the drug of abuse, and detecting the expression of one or more of the test of a cell to a drug of abuse, and comprise contacting the cell with the drug of abuse, and detecting the expression of one or more of genes whose expression levels are altered by chronic or acute exposure to one or more drugs of abuse. The identification provides a valuable tool to evaluate the response to one or more drugs of abuse. By altered in alcohol tolerance and/or addiction provides a valuable tool to evaluate the response provides information useful in designing to evaluate the response provides information useful in designing to evaluate the response provides information useful in designing to evaluate the response provides information useful in designing to evaluate and recovery regimens, and in evaluating the susceptibility of an organism or patient to drugs of abuse. Sequences AAZ59941-Z59951 response of the organism to drugs of abuse. Sequences AAZ59951 represent reverse transcriptase-PCR (RT-PCR) primers used to amplify 4 con a contact or contact or modification of the present invention. The genes whose expression was analysed were used in Northern blot analysis of genes whose expression analysed were dopamine beta-hydroxylase (DBH) and sodium dependent or expense to exemplification of the present invention. The genes whose expression and recompanism the deta-hydroxylase (DBH) and sodium dependent to morepinephrine metabolism; delta-like protein (DLK); and monocyte chemoattractant peptide 1 (MCP-1). These genes are thought to be important targets of ethanol. Primers AAZ5944-Z5945 were used to important targets of ethanol. Primers AAZ5944-Z5945 were used to
The invention relates the identification of genes whose expression levels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 3 A; 8 C; 5 G; 4 T; 0 U; 0 Other;
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                              Gaps
                              ;
0
0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
iive 0; Mismatches 2; Indels
               15; Conservative
                  Best Loc
Matches
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à ద RESULT 1072 AAA92148

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The present invention describes an isolated nucleic acid (I) encoding a mammalian Lhx3. (I) is used in assays to: (I) detect and quantify the presence and level of expression of Lhx3, Lhx3a or Lhx3b, in a sample; (2) identify a compound that affects expression, the level of expression, or the activity of Lhx3, Lhx3a, or Lhx3b in a cell; (3) identify a compound that affects binding or Lhx3 bin a cell; (3) identify a bund of a pituitary trophic hormone gene promoter; (4) identify a human afflicted with a disease, disorder, or condition caused by altered and (S) detect a mutation in a Lhx3 allele in a human. The coding region of human Lhx3 has been genomically mapped to the subtelomeric region of human Lhx3 has been genomically mapped to the subtelomeric region of human Lhx3 is also known as P-LIM or LIM-3. The present sequence represents a PCR primer used in the amplification of human Lhx3, which is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated nucleic acid encoding mammalian Lhx3 for identifying a buith a disease, disorder, or condition caused by an altered level of expression or binding of Lhx3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Dog; genome; genomic marker; radiation hybrid map; identification; chromosome location; gene marker; polymorphic microsatellite marker;
                                                                                                                                        Lhx3; LIM-3; P-LIM; identification; characterisation; diagnosis; chromosome 9; pituitary disease; subtelomeric region; mutation; pituitary trophic hormone gene promoter; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; ve 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dog genomic marker oligonucleotide sequence SEQ ID NO:746.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Rhodes SJ, Bridwell JL, Meier BC, Parker GB, Price JR;
Showalter AD, Sloop KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 2 A; 4 C; 9 G; 5 T; 0 U; 0 Other;
                                                                                                         Human Lhx3 exon 6 PCR primer SEQ ID NO:113.
                                                                                                                                                                                                                                                                                                                                                                                                        (ADRE-) ADVANCED RES & TECHNOLOGY INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 6; Page 169; 239pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA66884 standard; DNA; 20 BP.
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                                                                                                                                                                                                                                                                                                                              22-FEB-2000; 2000WO-US004424.
                                                                                                                                                                                                                                                                                                                                                                   99US-0121110P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match 0.8%;
Best Local Similarity 88.2%;
Matches 15; Conservative
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                                                                      (first entry)
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                                                                      04-JAN-2001
                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                   22-FEB-1999;
                                                                                                                                                                                                                                                                                            31-AUG-2000.
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                                 AAA92148;
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AAA66884
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Local Similarity
nes 15; Conserv
               Nishikawa
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               Ota T, Nisni
Wakamatsu A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-MAY-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAH20451;
                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 1075
                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAH204
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                                                                                                                                                                                                                                                                                                               The present invention describes a radiation hybrid map of the dog (Canine familiaris) genome comprising the genome location of a marker selected from AAA66139 to AAA66942. The radiation hybrid map is useful for identifying and localising dog genes, since it covers approximately 80 % of the dog genome and provides a dense map integrating different types of the dog genome and provides a dense map integrating different types (i.e. Type I and Type II) of markers. The map and the dog genome markers for complementary sequences) are especially useful to identify genes responsible for phenotypic and behavioural traits in dogs, to identify morbid genes to analyse diseases and identify implicated genes in such diseases and their alleles, and to study dog pedigrees. They may also be unvolved in genetic diseases
                                                                                                                                                                                                                                    New radiation hybrid map of the dog, Canine familiaris, genome, useful for e.g. identifying genes implicated in phenotypic and behavioral traits or in genetic diseases and for studying dog pedigrees.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; full length cDNA; cDNA synthesis; oligo-capping; PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human cDNA clone-specific primer, SEQ ID NO: 4416.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 6 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
phenotype; behaviour; pedigree; ss
                                                                                                                                                                                                                                                                                         Claim 1; Page 85; 87pp; English.
                                                                                                                                                           (CNRS ) CNRS CENT NAT RECH SCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           393 GGATGAGGTGCAGTCTC 409
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11-JAN-2000; 2000JP-00118774.
02-MAY-2000; 2000JP-00183765.
                                                                                                       99WO-IB001907
                                                                                                                                98US-0108193P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAK95171 standard; DNA; 20
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les 15, Conservative
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                                                                                                                                                                                    Andre C;
                                                                                                                                                                                                            WPI; 2000-387821/33.
                          Canis familiaris.
                                                    WO200029615-A2
                                                                                                       15-NOV-1999;
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                                                                                                                                13-NOV-1998;
                                                                                                                                                                                   Galibert F,
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830 Primers useful for synthesizing full length cDNA clones and their use in genetic manipulation.
                                                                                                                                                                                                                                          clones. 830 cDNA molecules encoding a human protein have been isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA molecules have been determined. Primers for synthesising the full length cDNA are useful for clarifying the function of the protein encoded by the cDNA. The full length clones were obtained by construction of full length enriched cDNA libraries that were synthesised by the oligo-capping method. The primers enable the production of the full length cDNA easily without any special methods. The present sequence is a primer used to amplify a human cDNA clone provided in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention describes a novel transport system (A) for molecular substances (I) containing recombinantly prepared subunits (SU) based on amino acids (as) comprising: (i) at least two modified SU with one difference, and/or (ii) one or more modified SU with at least two
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Transport system for compounds, useful e.g. in gene therapy, comprises mosaic-like assembly of different protein subunits able to encapsulate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Transport system; gene therapy; infection; tumor; ss; LLO; PCR primer; human immune deficiency virus; hemophilia; muscular dystrophy; capsid; cystic fibrosis; virus-like particle; cell targeting; listeriolysin O.
                       Ξ
                                                                                                                                                                                                                          The invention relates to primers for synthesising full length cDNA
  Kawai Y;
T, Koga 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
ive 0; Mismatches 2; Indels
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                                                                                                                                                                          Example 18; Page 132; 1380pp + Sequence Listing; English.
kawa T, Isogai T, Hayashi K, Ishii S,
Sugiyama T, Nagai K, Kojima S, Otsuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 7 A; 3 C; 8 G; 2 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19 TGGACAGGAATGCAGAG 35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     88.2%;
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AAH20451 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Boehm G, Rudolph R,
                                                                    WPI; 2001-524255/58.
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Sequence 20 BP; 7 A; 4 C; 8 G; 1 T; 0 U; 0 Other;

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combined in a mosaic feashon to form (A) in which (I) can be encapsulated. (A) Are used to deliver (I) specifically to cells, particularly DNA to eukaryotic cells for gene therapy, e.g. of infections by human immune deficiency virus, tumors and a wide range of inherited diseases such as hemophilia, muscular dystrophy or cystic fibrosis. Capsids or other virus-like particles can be assembled, simply and in modular feathon, in vitro, allowing control over stoichiometric composition. SU can be modified to impart a wide variety of selected immunogenicity. (A) do not require extensive testing to ensure that they are safe (contrast replication-deficient viruses), also SU can be prepared in very pure form and are easily labeled fluorescently (for quality control or localization). This sequence represents a PCR primer used in the production of a Listeria monocytogenes listeriolysin LO variant which is used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Macrophage migration inhibitory factor; WMIF; antisense; neurological; hyperproliferation; nootropic; antihormonal; immunosuppresive; human; antiinflammatory; cytostatic; ss.
differences; and (iii) (optionally) unmodified SU. The various SU are
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                                                                                                                                                                                                                                                                                                              0.8%; Score 13.8; DB 1; Length 20; ilarity 88.2%; Pred. No. 8.6e+02; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human MMIF mRNA inhibiting antisense oligo ISIS #112711.
                                                                                                                                                                                                                                                                               Sequence 20 BP; 3 A; 13 C; 3 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAH23201 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-JAN-2001; 2001WO-US001475.
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Matches 15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAH23201;
                                                                                                                                                                                                                                                                                                                Query Match
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1547 GCCTTCGGTCTTCGTCG 1563 Matches δ The invention relates to antisense oligonucleotides 8-30 nucleotides in inhibitory factor (MMIF), where the antisense compound specifically hybridizes with and inhibitors he expression of MMIF. The antisense nucleotides with and inhibits the expression of MMIF. The antisense nucleotides are useful for the treatment of a disease or condition associated with MMIF such as neurological, hormonal, immune, inflammatory or hyperproliferative disorder. Sequences AAH2191-268 represent chimeric antisense phosphorothicate oligonucleotides used for inhibition of human MMIF mRNA expression New antisense compound(s) are useful to inhibit a nucleic acid molecule encoding macrophage migration inhibitory factor. Claim 3; Page 82; 105pp; English. Murray SF, Cowsert LM, (ISIS-) ISIS PHARM INC. WPI; 2001-451899/48.

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                                      ö
                                                                                                                                                                                                                                                                                                                                                         Vaccine, cytostatic, virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma; infections disease; allergy; immune deficiency; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vaccinating against tumors, infectious diseases, allergies and asthmausing immunostimulatory Py-rich and TG nucleic acids.
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88.2%; Pred. No. 8.6e+02;
rative 0; Mismatches 2; Indels
0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
ative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                present sequence may have a phosphorothioate backbone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                         Immunostimulatory nucleic acid #929.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 101; Page 58; 338pp; English.
                                                                            39 GGCAGGAGCACCAGCAG 55
                                                                                                              18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-SEP-1999; 99US-0156113P.
27-SEP-1999; 99US-0156135P.
23-AUG-2000; 2000US-0227436P.
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(COLE-) COLEY PHARM GMBH.
                                                                                                                                                                                                          AAF99813 standard; DNA; 20
                                                                                                              GGCAGAAGGACCAGGAG
                                                                                                                                                                                                                                                                                 12-JUN-2001 (first entry)
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                                        15; Conservative
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  Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                AAF99813;
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                                        Matches
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GCCTTCGATCTTCGTTG 17

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This invention describes novel regulatory sequences (A) derived from human fascin that provide specific expression in dendritic cells (DC) and which have antiviral, antibacterial, antibacterial, antiparasitic, anti-
antiparasitic, anti-
antiparasitic, anti-
antiparasitic, anti-
antiparasitic, anti-
antiparasitic, anti-
and poptocic activity. (A) are
sequences etc. in DC-specific fashion. Recombinant DNA, vectors and host
cells that contain (A) are useful: (1) in vaccines against viruses,
bacteria, fungi, parasites, tumors, allergens and plaques in Creutzfeld-
antergies, infections, autoimmune diseases and transplant rejection. They
can also be provide specific expression of antigens and immunoregulators
in DC. for isolation and identification of call factors and cis-elements
from regulatory sequences that mediate DC-specific expression, to
determine the degree of maturity of DC and to block transcription
factors, by providing binding sites in DC. (A) provide DC-specific
expression of nucleic acid under their control, allowing a more specific
regulation of the immune response and eliminating the long and laborious
transformed), including transformation in vitro. This sequence represents
a primer associated with the human fascin gene described in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New regulatory sequences from the fascin gene, useful for providing dendritic cell-specific expression of e.g. antigens, e.g. for vaccination against tumors and infections.
                                                                                                                                                                                          Fascin; regulatory sequence; human; dendritic cell; antiviral; tumor; antibacterial antifungal; antiparasitic; anti-allergic; neurological; immunomodulatory; apoptortic; expression regulator; vaccine; allergen; Creutzfeld-Jakob disease; Alzhelmer's disease; gene therapy; autoimmune disease; transplant rejection; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 2 A; 4 C; 9 G; 5 T; 0 U; 0 Other;
                                                                                                                                                      Human fascin associated primer SEQ ID 40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1d; Page 105; 117pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ross R,
                                   ВЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                     12-JAN-2001; 2001WO-EP000362.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-JAN-2000; 2000DE-01001169.
02-MAR-2000; 2000DE-01010188.
                                 AAH48588 standard; DNA; 20
                                                                                                                (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESK/) RESKE-KUNZ A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-451858/48
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(ROSS/) ROSS R.
(BROS/) BROS M.
                                                                                                                                                                                                                                                                                                                                                      WO200151631-A2
                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                  20-SEP-2001
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                                                                          AAH48588;
RESULT 1078
                     AAH48588,
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Bros M;

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The present invention relates to a retrovirus of type C morphology, which sediments in a sucrose gradient at a density of 1.16-1.18 g/l. The retrovirus is infectious for canine cells and belongs to the oncovirinae group. The present sequence is a PCR primer for the retrovirus of the present invention. The retrovirus can be included in pharmaceutical compositions or medicaments to treat autoimmune diseases, haematopoietic malignant tumours, especially in humans. The retrovirus can also be used in gene therapy to introduce a transgene into an animal,
                                                                                                                                                                                                         PCR primer; immunosuppressive; cytostatic; gene therapy; retrovirus; canine; autoimmune disease; haematopoietic malignancy; malignant tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cell line, useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human GABA(A) receptor-associated protein specific primer GABArp-R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New infectious retrovirus isolated from a canine cell line, useful producing medicaments to treat autoimmune diseases, hematopoietic malignancies or malignant tumors and in diagnosis and gene therapy.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.8%; Score 13.8; DB 1;
88.2%; Pred. No. 8.6e+02;
iive 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Darlix J;
                                                                                                                                                                                Canine retroviral PCR primer MLVIN5700+.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Corbine A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 31; Fig 11; 131pp; English.
986 AGCCCCAGAACCTGCTC 1002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       226 GAGAGTGGTGGTGG 242
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Query Match
Guery Local Similarity 88.40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAH76258 standard; DNA; 20
                                                                                    128/c
AAC89128 standard; DNA; 20
               17 AGCCCCAGAACCCGCAC
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                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ghernati I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-016224/02.
                                                                                                                                                                                                                                                                                             WO200070024-A2
                                                                                                                                                                                                                                                                  Unidentified.
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                                                                                                                                                    07-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                              18-MAY-1999;
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                                                                                                                                                                                                                                                                                                                        23-NOV-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rigal D,
                                                                                                                         AAC89128;
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                                                                                 AAC891:
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Gaps .. 0

0.8%; Score 13.8; DB 1; Length 20; llarity 88.2%; Pred. No. 8.6e+02; Conservative 0; Mismatches 2; Indels

Query Match Best Local Similarity Matches 15; Conserv

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The invention provides an agent comprising a pyrone compound or dihydroxy compound of specified formulae given in the specification. The agent is used for correcting gene expression regulation errors. Errors in the following genes may be corrected: Li-6, Li-10, hemeoxygenase-1, prostaglandin G/H synthase-2, macrophage inflammatory protein-1-alpha, IL-7 receptor, macrophage inflammatory protein-1-beta, liver and activation-regulated chemokine, macrophage inflammatory protein-2-beta, macrophage inflammatory protein-1-beta, macrophage inflammatory protein-1-beta, macrophage inflammatory protein-1-beta, macrophage inflammatory protein-1, marrix metalloproteinase-9, migration inhibitory factor-related protein-1, matrix metalloproteinase-9, migration inhibitory factor-related protein-1, ranskerolase, adenosine AZa receptor, CD7 artigen properdin P factor, regulator of G-protein signaling-2, Nef-associated factor-1, myeloid leukemia cell differentiation protein-1, signal peptidase complex, and also side-effects caused by them such as inflammation. Sequences AAH76220 7620 represent PCR primers used in the course of the invention
Pyrone; gene therapy; antiinflammatory; gene expression; interleukin; hemeoxygenase-1; prostaglandin G/H synthase-2; RANTES; TWF alpha; p78; macrophage inflammatory protein; chemokine; growth regulated protein-1; matrix metalloproteinase-9; migration inhibitory factor-related protein; lyzoxyme; GABA(A) receptor-associated protein; interferon; SCO homolog-2; lransketolase; adenosine Ala receptor; CD37 antigen properdin P factor; G-protein; Nef-associated factor-1; signal peptidase; PCR primer; sa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Agent for correcting gene expression regulation error comprises pyrone compound or dihydroxy compound.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Heavy chain variable region; llama; Malassezia furfur; dandruff;
hair care; GAL7 promoter; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer used to amplify the left-hand GAL7 promoter region.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 2 A; 4 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sagawa H,
                                                                                                                                                                                                                                                                                                                                                                                                                                           Nishimura K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 6; Page 77; 93pp; Japanese.
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03-OCT-2000; 2000JP-00303711.
                                                                                                                                                                                                                                                                                            11-JAN-2001; 2001WO-JP000082
                                                                                                                                                                                                                                                                                                                                                                                                 (TAKI ) TAKARA SHUZO CO LTD.
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Best Local Similarity 88.2
Marches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-514436/56.
                                                                                                                                                                                                              WO200151480-A1
                                                                                                                                                                      Homo sapiens.
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PCR primers AAF80165-66 were used to amplify the left-hand GAL7 promoter. The amplified sequence was used to express fusion proteins comprising a heavy chain variable region of an antibody isolated from llama, which was immunised with Malassezia furfur. M. furfur has been implicated in active agent, and used to produce a composition is conjugated to an active agent, and used to produce a composition for topical application, e.g. to the scalp. The topical composition, e.g. hair care products such as shampoos and conditioners, skin care lotions, shower gels, etc., is useful for targeting an active agent to a site at which M. furfur is present for the treatment and prevention of dandruff
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Composition for use in targeting active agent, especially antimicrobial agent to scalp for treating, preventing dandruff, has active agent conjugated to antibody capable of binding specifically to Malassezia
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allergic disease; PCR primer; 88.
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88.2%; Pred. No. 8.6e+02;
varive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 8 A; 3 C; 8 G; 1 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human IL4Ralpha gene PCR primer #48.
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                                                                                                                                                                                                                                                                                                                                                                                                             Frenken LGJ, Van Der Vaart JM;
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                                                                                                                                                          28-AUG-2000; 2000WO-EP008380.
                                                                                                                                                                                                                       99EP-00307356
                                                                                                                                                                                                                                                                                                                     (UNIL ) UNILEVER NV.
(HIND-) HINDUSTAN LEVER LTD.
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Les 15; Conservative
                                                                                                                                                                                                                                                                                (UNIL ) UNILEVER PLC. (UNIL ) UNILEVER NV.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-257877/26.
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                                 WO200119871-A2
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Windemuth AK;
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                                                                                              22-MAR-2001
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The present invention relates to polymorphisms of the human interleukin 4 receptor-alpha gene (IL4R-alpha, see AAF57718 for the reference asquence). Polymorlectides comprising polymorphic gene variants are useful for therapeutic purposes. For example, where a patient may benefit from expression of a particular IL4Ralpha protein isoform, an expression vector encoding the isoform may be administered to the patient. It may desirable to decrease or block expression of a particular IL4Ralpha isogene, which may be done by turning off by transforming a targeted organ, tissue or cell population with an expression vector that expresses high levels of untranslatable mRNA for the isogene. Specific therapeutics identified by these methods may be useful for allergic diseases. The present sequence is a PCR primer for human IL4R-alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to isolated genes (Gene 216) from human chromosome 20p13-p12 and the proteins they encode. The mucleic acids and proteins may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate Gene 216 expression. For example, the nucleic acids (or vectors) and proteins may be used to treat disorders
                                              New isolated polynucleotide useful for the identification of therapeutics in allergic diseases is new.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Isolated genes (Gene 216) from human chromosome 20p13-p12 and the proteins they encode, useful for the prevention, diagnosis and treatment of asthma, obesity and inflammatory bowel disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human, Gene 216; chromosome 20p13-p12; antiasthmatic; anorectic; antiinflammatory; gastrointestinal; gene therapy; vaccine; asthma; obesity; inflammatory bowel disease; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 3 A; 4 C; 8 G; 5 T; 0 U; 0 Other;
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                                                                                                         Example 1; Page 61; 188pp; English.
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            WPI; 2001-103078/11
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cc associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of gene 216 by expressing canderive proteins or to supplement the patients own production of Gene 216 proteins. Additionally, the nucleic acids may be used to produce the secreted Gene 216 protein, by inserting the nucleic acids into a host complementary sequences may also be used as DNA probes in the nucleic acids and complementary sequences may also be used as DNA probes in need of sequences in samples and therefore which patients may be in need of sequences in samples and therefore which patients may be in need of restorative therapy. The Gene 216 protein may also be used as antigens in the production of antibodies and attagonists may also be used as diagnostic antibodies and attagonists may also be used as diagnostic and activity. The anti-Gene 216 antibodies may also be used as diagnostic and activity. The anti-Gene 216 antibodies may also be used as diagnostic and activity. The anti-Gene 216 antibodies may also be used as diagnostic and activity. The anti-Gene 216 antibodies may also be used as diagnostic capents for detecting the presence of Gene 216 proteins in samples (e.g. by enzyme linked immunosorbant assay or ELISA). Disorders that may be consented, diagnosed and/or treated by the above methods include, for example asthma, obesity and inflammatory bowel disease. The present convention. The primares are used in the physical mapping of the cinvention. The primares are used in the physical mapping of the gene (assay) or ELISA). Disorders that may be conformational polymorphism identification using single strand conformational polymorphism and genotyping (ABZ72017-ABZ72185-ABZ72268) and genotyping (ABZ72117-ABZ72181).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Isolated genes (Gene 216) from human chromosome 20p13-p12 and the proteins they encode, useful for the prevention, diagnosis and treatment of asthma, obesity and inflammatory bowel disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to isolated genes (Gene 216) from human chromosome
20p13-p12 and the proteins they encode. The nucleic acids and proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gene 216 SSCP detection primer SEQ ID NO 94.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 10; Page 149; 520pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      538 CCCATCTTTGACAAGCC 554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABZ72122 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13-APR-2000; 2000US-00548797.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABZ72122;
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Gaps

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0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; iive 0; Mismatches 2; Indels

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may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate Gene 216 expression. For example, the nucleic acids of or vectors) and proteins may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of gene 216 by expressing inactive proteins or to supplement the patients own production of Gene 216 proteins. Additionally, the nucleic acids may be used to produce the secreted Gene 216 protein, by inserting the nucleic acids into a host complementary sequences may also be used as DNA probes in diagnostic assays to detect and quantitate the presence of similar nucleic acid complementary sequences and therefore which patients may be in need of restorative therapy. The Gene 216 protein may also be used as antigens in the production of antibodies and activity. The anti-Gene 216 and in assays to identify and activity. The anti-Gene 216 and in assays to identify and activity. The anti-Gene 216 antibodies may also be used as diagnostic agents for detecting the presence of Gene 216 proteins in samples (e.g. by enzyme linked immunosorbant assay or EursA). Disorders that may be prevented, diagnosed and/or treated by the above methods include, for example asthma, obesity and inflammatory bowel disease. The present sequence is that of a Gene 216 traited primer used in examples of the invention. The primers are used in the physical mapping of the gene inventional polymorphism identification using single strand conformational polymorphism identification using single strand conformational polymorphism identification using single strand conformational polymorphism and genotyping (ABZ722194).
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Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

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Query Match

0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 8.6e+02;
Matches 15; Conservative 0; Mismatches 2; Indels
                                                                                             538 CCCATCTTGACAAGCC 554
                                                                                                                             CCCTTCTGTGACAAGCC 18
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Gaps

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ABS71117 standard; DNA; 20 BP (first entry) 27-NOV-2002 ABS71117; RESULT 1085 ABS711 

Rat GPCR ligand Bv8 cDNA PCR primer RBv8-WR2.

G-protein coupled receptor; GPCR; ZAQ; human; ZAQC; ZAQT; rat; ZAQI; rZAQI; rZAQ2; mouse; I5E receptor; mI5E; GPR73; Bv8 protein; digestive disorder; central nervous system disorder; CNS; diarrhoea; bowel inflammation; constipation; food absorption disorder; nootropic; Alzheimer's disease; Parkinson's disease; schizophrenia; laxative; antiinflammatory; antidiarrhoeic; neuroleptic; neuroprotective; PCR; primer; ss

Rattus sp.

WO200262944-A2.

15-AUG-2002.

01-FEB-2002; 2002WO-JP000852 02-FEB-2001; 2001JP-00026820.

(TAKE ) TAKEDA CHEM IND LTD.

Shintani Y;

Watanabe T,

Takatsu Y,

Masuda Y,

Ohtaki T, Hinuma S;

WPI; 2002-627537/67.

their ability to modify the binding of G-protein coupled receptor (GPCR) protein ZAQ and related proteins (human ZAQC, human ZAQT, rat ZAQI (TZAQI), TZAQZ, human and mouse ISE (MISE) receptor, and mouse GPR73) to their ligands (the mature form of human, mouse or rat Bv8 protein). The receptor protein and ligand are contacted in the presence or absence of the test compound. The compounds are useful in a drug composition for the treatment, and prevention of dispertive and central nervous system (CNS) disorders, including bowel inflammation, diarrhoea, constipation, food absorption disorders, Alzheimer's disease, Parkinson's disease and semination of the present sequence represents a PCR primer used in the Screening of compounds modifying the binding of G-protein coupled receptor protein ZAQ and related proteins to their ligands for use in treatment and diagnosis of digestive disorders. present invention relates to a screening method for compounds for Example 5; Page 127; 197pp; Japanese. examples of the present invention

Sequence 20 BP; 3 A; 7 C; 3 G; 7 T; 0 U; 0 Other;

ö ö Query Match 0.8%; Score 13.8; DB 1; Length 20; Best Local Similarity 88.2%; Pred. No. 8.6e+02; Matches 15; Conservative 0; Mismatches 2; Indels

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AAH77194 standard; DNA; 20 BP. (revised)
(first entry) 07-AUG-2003 24-JAN-2002 AAH77194; RESULT 1086 

PCR primer PV3 used to amplify HPV in human cervical cancer cells.

Human; cervical cancer; human papilloma virus; PCR primer; PV3; SiHa; HPV; Thermal cycling; AIDS; ss.

Human papillomavirus.

US6300124-B1.

99US-00432012. 02-NOV-1999; 09-OCT-2001.

99US-00432012. 02-NOV-1999;

(MINU ) UNIV MINNESOTA

Cibuzar GT, Schiller P, Arik Blumenfeld M, Bar-Cohen A,

WPI; 2002-009526/01.

Microscopic slide temperature control apparatus for medical diagnosis comprises coupling resistive heating element between the connection pads provided at opposing ends of slide.

Example 3; Col 27; 25pp; English.

The sequence represents PCR primer PV3. The primer was used in the invention to amplify DNA from cells of the stable human cervical cancer cell line SiHa, containing on integrated copy of human papilloma virus (HPV) type 16 ppr human genome. The invention relates to a novel thermal cycling device for regulating the temperature of a biological sample on flat substrate. The invention also includes an apparatus comprising the flat substrate for use in the thermal cycling device. The invention is

BP.

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Novel isolated polypeptide comprising variant form of mouse or human SACI polypeptide, and is associated with altered preference for carbohydrates or other sweeteners, useful for preventing obesity, diabetes, alcoholism
                                                                                                               Human, mouse, SAC1; carbohydrate, sweetener; ethanol; alcoholism; ss;
obesity; diabetes; transgenic embryo; body tissue; body fluid; pancreas;
blood; tongue; PCR primer; anorectic; antidiabetic; gene therapy;
protein replacement therapy;
                                                                                       Murine SAC1 gene-specific oligonucleotide PCR primer #422.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 14; Page 90; 239pp; English.
                                                                                                                                                                                                                                                                                                                                                              (WARN ) WARNER LAMBERT CO. (MONE-) MONELL CHEM SENSES CENT.
                                                                                                                                                                                                                                                                                                                     28-JUL-2000; 2000US-0221419P.
                                                                                                                                                                                                                                                                          25-APR-2001; 2001WO-US013387
                                                                                                                                                                                                                                                                                                      28-APR-2000; 2000US-0200794P
   AAS97855 standard; DNA; 20
                                                           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                        Bachmanov AA, Beaucl
Ohmen JD, Reed DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-075162/10.
                                                                                                                                                                                                                   WO200183749-A2
                                                           12-MAR-2002
                                AAS97855;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention provides the protein and coding sequences of rice lesion formation inhibitor Sp17. The protein improves the heat stress of the plant, and can be used in the development of new breeds of plants for agriculture and horticulture. The present sequence is a PCR primer used to isolate the coding sequence of the invention
useful for medical diagnosis of diseases such as AIDS, also for amplification of nucleic acids in biological samples. The invention has the advantage that it enhances operatively as the heat resisting element is directly coupled to the microscopic slide, and reduces costs as the use of a heat sink is eliminated. (Updated on 07-AUG-2003 to correct OS field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rice-originated gene, Sp17, that inhibits lesion formation and is applicable in improving heat stress of plants thus leading to prevention of lesion formation, for developing new breeds of plants for agriculture and horticulture.
                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                         Rice; lesion formation inhibition; heat stress; agriculture; Sp17;
transgenic; plant; horticulture; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                              Rice lesion inhibitor protein Sp17 coding sequence PCR primer #9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.8; DB 1; Length 20;
18.2%; Pred. No. 8.6e+02;
ve 0; Mismatches 2; Indels
                                                                                                                               0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
iive 0; Mismatches 2; Indels
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                                                                                                   Sequence 20 BP; 2 A; 4 C; 6 G; 8 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 6; Page 47; 53pp; Japanese.
                                                                                                                                                                                         1308 CAAGACATACAACTACC 1324
                                                                                                                                                                                                                                                                                           BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88.2%;
                                                                                                                                                                                                                                                                                          AAL46967 standard; DNA; 20
                                                                                                                                                            15; Conservative
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Best Local Similarity 88.2
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Yano M, Yamanouchi U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-372312/40
                                                                                                                                              Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oryza sativa.
                                                                                                                                                                                                                                                                                                                                                 30-AUG-2002
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                                                                                                                                                            Matches
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Matches
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or human SAC1

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De Jong PJ,

Chatterjee A, Tordoff MG;

hamp GK, Ross D,

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The invention relates to an isolated polypeptide, comprising a variant form of mouse or human SAC1 polypeptide. The variant form is associated with altered preference for carbohydrates, other sweeteners or ethanol.

The polypeptide and its associated DNA sequence can be produced by recombinant techniques and is useful for preventing obesity, diabetes or alcoholism associated with SAC1 expression. The sequences are useful in careening for drugs and sweeteners. Recombinant call lines and transgenic embryos may be used in screening for and identifying agents that induce or repress function of SAC1. Predisposition to diabetes, obesity or alcoholism can be ascertained by testing any fluid or tissue of a human (such as blood, pancreas or tongue) for sequence variations of the SAC1 gene, a sequence variation of the SAC1 locus may indicate a predisposition to diabetes, obesity and/or alcoholism and may provide a diagnostic mark. The polymucleotide can be detected in a biological sample by contacting the DNA with a probe to form a hybridisation complex which is then detected. The sequences represent cDNA encoding human and mouse SAC1 polypeptides and PCR primers specific for the SCA1 genes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
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Best Local Similarity 88.2
Matches 15; Conservative
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Gaps

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379 TCAGCCACGTCCTCGGA 395

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20 TCAGCCACGGCCACGGA

RESULT 1088 AAS97855

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(ISIS-) ISIS PHARM INC.
                                                                            WPI; 2002-470102/50.
                      Key
modified_base
                                modified_base
                                         modified_base
                                                   US6372492-B1
                  Homo sapiens
                                                                        Sennett CF,
  29-AUG-2002
                                                       16-APR-2002
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The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour mestastasis, precancerous lession, theumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, osler-webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, incestinal adhesions, atherosclerosis, scleroderma and hyperirophic scars. The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Inhibiting angiogenesis in a subject, involves administering at least one antiangiogenic nucleic acid molecule to the subject.
                                                                                                                                                                                                            Anglogenesis inhibitor; ss; anglogenesis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial anglogenesis; plaque meovascularisation; telangiectesia; haemophiliac joint; solgibroma; wound granulation; intestinal adhesion; atherosclerosis; scleroderma; hypertrophic scar.
                                                                                                                                                                     Angiogenesis inhibitory oligonucleotide #1019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 2; Page 37; 276pp; English.
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ABK41307 standard; DNA; 20 BP.
                         BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (COLE-) COLEY PHARM GROUP INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-DEC-2001; 2001WO-US048458.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-DEC-2000; 2000US-025534P.
                         ABS78535 standard; DNA; 20
                                                                                                                       (first entry)
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Best Local Similarity
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                                                                                                                       13-DEC-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-JUL-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                        ABS78535;
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ABK41307
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes an antisense compound (I), 16 to 30 bases in length targeted to specific base regions of a nucleic acid encoding human Talin. Also described. (a) an antisense compound up to 30 bases in length which inhibits the expression of human Talin; (b) a composition (II) comprising (I) or (a), and (c) inhibiting the expression of human Talin in human cells or tissues comprising contacting the cells or tissues in vitro with (I) or (a). (I) has antimicrobial, antiinflammatory and cytostatic activities, and can be used in antiesness gene therapy and as a Talin expression inhibitor. (I) can be used: to prevent or delay infermantion or tumour formation, and in diagnostics, therapeutics, prophylaxis, and in research reagents and kits. The present sequence represents a human Talin antisense chimeric phosphorothicate colliquic lection, infinity wing 2' methoxyeftyl (2'-MOS) wings of 5 nucleotides at the 5' and 3' ends and a 10 nucleotide decoxy gap in the middle, which is used in an example from the present invention
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                                                                                                                    Human, Talin, antimicrobial, antiinflammatory, cytostatic, inhibitor, antisense gene therapy, infection, inflammation, Talin inhibitor, tumour, antisense oligonucleotide, phosphorothioate, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New antisense compound useful for inhibiting expression of Talin and for preventing or delaying infection, inflammation or tumor formation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                        Human Talin antisense phosphorothioate oligonucleotide SEQ ID NO:77.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .;
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/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides"
16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tag= c
/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides"
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88.2%; Pred. No. 8.6e+02;
ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                note = "phosphorothioate backbone"
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                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                            Claim 14; Col 42; 46pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1571 ACTCAGGCAGGCCAGCT 1587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 ACTCTGGCAGGCCATCT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-OCT-2000; 2000US-00702251.
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                         (first entry)
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es 15; Conservative
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                                                             Gaps
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                                Length 20;
                                                           2; Indels
Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                               0.8%; Score 13.8; DB 1;
88.2%; Pred. No. 8.6e+02;
                                                             0; Mismatches
                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                        21-MAY-2002
                                                                                                                                                                                                                           ABK41307;
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Query Match

Best Loca Matches

ઠે 셤 RESULT 1090

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The invention relates to a set of novel map-related biallelic markers, preferably located on obesity disorder-associated chromosomal regions on chromosomes 3, 10 and 19. The markers are useful for genotyping or estimating the frequency of an allele in a population, for detecting an association between a genotype or haplotype and a phenotype, e.g. a disease involving ersponses, obesity or disorders related to obesity, such as hypernicaemia, disease involving the responses, obesity pathology, hepatic function disorders, cancer, cardiovascular disease, hypertension, hyperlipidaemia, insulin disorders, atheromatous disease and cardiac insulficiency. The markers are useful for detecting a statistical correlation between a biallelic marker allele and a phenotype and/or between a biallelic marker showlove. Sequences ABK41306-ABK41309 and ABK41328-ABK41331 represent Polymers used to amplify human LSR gene or USF2 gene biallelic markers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Set of novel map-related biallelic markers, preferably located on obesity disorder-associated chromosomal regions on chromosomes 3, 10 and 19, useful, for e.g. detecting statistical correlations between marker allele and a phenotype.
                                      Human, obesity associated-biallelic marker; as; LSR; USP2; PCR; primer; drug response, hyperuricaemia; digestive pathology; hypertension; cancer; hepatic function disorder; cardiovascular disease; hyperlipidaemia; insulin disorder; atheromatous disease; cardiac insufficiency; obesity.
                                                                                                                                                                                                                                                                                                                                                                                                                               Cohen D, Blumenfeld M, Chumakov I, Abderrahim H, Bihain B;
Human LSR gene biallelic marker upstream PCR primer #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 5 A; 4 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 307; 311pp; English
                                                                                                                                                                                                                                                                                             28-JUN-2001; 2001WO-IB001477.
                                                                                                                                                                                                                                                                                                                                        18-JUL-2000; 2000US-0219704P.
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                                                                                                                                                                                                                                                                                                                                                                                 (GEST ) GENSET.
                                                                                                                                                          Homo sapiens.
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Gaps
                                ;
0
 0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
rative 0; Mismatches 2; Indels
                                15; Conservative
Query Match
Best Local Similarity
                 Best Loca
Matches
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1417 CGAAATCGGATCTCCGC 1433 20 cgaaaraggarcrcagc

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ABQ93162 standard; DNA; 20 BP. (first entry) (revised) 29-AUG-2003 21-OCT-2002 ABQ93162; RESULT 1092 ABQ93162, 

T. tauschii/wheat D genome microsatellite cfd60 right PCR primer.

Microsatellite marker; wheat; D genome; mapping; genotyping; polymorphism; phenotypic trait; OTL; quantitative trait locus; disease-associated gene; development factor; quality factor; resistance factor; wheat product; identification; detection; genetically modified wheat; PCR; primer; ss.

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The invention relates to a map of the bread wheat D genome comprising the genome location of a microsatellite marker selected from a group of 185 cuch markers (ABQ92733-ABQ9217). The invention also encompasses the use of left (ABQ921016 ABQ92107). The invention also encompasses the use of left (ABQ921016 ABQ92107). The invention also encompasses the use of left (ABQ921016 ABQ92107) primars to amplify and detect the microsatellie markers, and to identify genes responsible for a phenotypic trait of interest in wheat. Wheat is and allokazabloid species consisting of 3 diploid genomes designated A. B and conferent species. The D genome is thought to have been introduced in the most recent intercrossing, between the amphipolid AABB and Triticum taugchii (DD), probably involving only a limited number of genotypes of both species. Due to its polyploid genome, the large size of its genome, and its low level to polymerase slippage during replication. This high degree of between one and six nucleotides long, and are very polymorphic in lempth, mainly due to polymerase slippage during replication. This high degree of polymorphism makes them especiallite are codeminant, and exhibit kendedian independent of the companies. The succession of the propose of the invention are deficion, microsatellite markers thus help to overcome some of the propose second the microsatellite markers thus help to overcome some of the propose and the microsatellite markers thus help to overcome some of the propose and the microsatellite markers thus help to overcome some of the invention are useful for identifying genes and secondated primers of the invention are useful for identifying development factors, quality factors and factors conferring resistance to pathogens and xenobiotics. The markers and associated primers may be also be used for analysing genes and all allees implicated in the present comprises genetically modified when to assess whether or not a product comprises genetically modified where the presents a specifically older of prime
                                                                                                                                                                                                                                                                                                                                                      Map of wheat D genome comprising the genome location of a microsatellite marker, useful for e.g. identifying genes responsible for a desired phenotypic trait, especially quantitative trait loci in wheat, and
                                                                                                                                                                                                                               (INRG ) INRA INST NAT RECH AGRONOMIQUE.
                                                                                                                                                                                                                                                                        Guyomarch H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 4; Page 6; 105pp; English.
                                                                                                                                               22-DEC-2000; 2000EP-00403659
                                                                                                                                                                                       22-DEC-2000; 2000EP-00403659
                                                                                                                                                                                                                                                                        Bernard M, Sourdille P,
                                                                                                                                                                                                                                                                                                                WPI; 2002-550410/59.
Aegilops tauschii.
Triticum aestivum.
                                                            EP1217079-A1
                                                                                                      26-JUN-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                       diseases
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Sequence 20 BP; 4 A; 3 C; 7 G; 6 T; 0 U; 0 Other;

Gaps ö Length 20; 2; Indels 0.8%; Score 13.8; DB 1; 88.2%; Pred. No. 8.6e+02; iive 0; Mismatches 2; Query Match Best Local Similarity 88.2<sup>3</sup> Matches 15, Conservative

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CCTGCTCATCAACGAGA 1012 966

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Human; NOVX; NOV1; NOV2; NOV4; NOV5; NOV6; NOV7; NOV9; NOV9), NOV10; NOV12; NOV13; NOV7.associated disorder; cardiomyopathy. atherosclerosis; diabetes; cancer; cell signal processing; AlDS; metabolic pathway; neuro-olfactory system disorder; neoplastic disorder; acquired immunodéficiency syndrome; inflammatory disorder; obesity; anorexia; cancer-associated cachexia; neurodegenerative disorder; immune disorder; graft versus host disease; Crohn's disease; multiple solteroais; haemophilia; idiopathic thromboytopenic purpura; infectious disease; bacterial infection; fungal infection; RTO-PCR; ss; protozoal infection; viral infection; real time quantitative-PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                      21-DEC-2000; 2000US-0257495P.
20-BEC-2000; 2000US-0258171P.
20-FEB-2001; 2001US-0254940P.
08-MAR-2001; 2001US-0277826P.
22-MAR-2001; 2001US-0277826P.
29-MAR-2001; 2001US-0278840P.
11-APR-2001; 2001US-0282981P.
13-APR-2001; 2001US-0283656P.
13-APR-2001; 2001US-0383556P.
10-AUG-2001; 2001US-0311754P.
                                                                                                                                  Human NOV8 RTQ-PCR primer #2
                                                                                                                                                                                                                                                                                                                                                                 21-DEC-2001; 2001WO-US049519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alsobrook JP, Tchernev V,
20 CCTGCTCATCAAGTGA
                                                         ABS51129 standard; DNA; 20
                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-508801/54.
                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                          21-OCT-2002
                                                                                                                                                                                                                                                                                                                                          27-JUN-2002.
                                                                                  ABS51129;
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Tchernev V, Liu X, Spytek KA, Zerhusen B;
Grosse WM, Lepley DM, Burgess CE, Shimkets R;
ernet CAM, Li L, Casman SJ, Boldog F, Gorman L;
Fernades E, Rieger D, Edinger S, Gunther E, Millet I;
erman K, Macdougall J, Smithson G; Patturajan M, Grosse WM, Lepley LM, Szekeres E, Vernet CAM, Li L, Casmal Gangolli EA, Fernandes E, Rieger D, Sciore P, Ellerman K, Macdougall J, New NOVX polypeptides and polynucleotides, useful in gene therapy, particularly for treating or preventing cardiomyopathy, atherosclerosis, diabetes, Crohn's disease, hemophilia or cancer in humans.

Example 2; Page 254; 391pp; English.

The present invention relates to the isolation of novel human proteins referred to as NOVX, and the polynucleotide sequences encoding them. The NOVX proteins of the invention include NOV1-NOV13. NOVX proteins, NOVX nucleic acids and antibodies are useful for treating or preventing a NOVX associated disorder, or alleviating a pathological state in a subject, particularly humans. Such disorders include cardiomyopathy, atherosclerosis, diabetes, cancer (e.g. adenocarcinoma, lymphoma, prostate cancer, uterus cancer; disorders related to cell signal processing and metabolic pathways, disorders of the neuro-olfactory system (e.g. those induced by trauma, surgery and/or neoplastic disorders), acquired immunodeficiency syndrome (ADS), inflammatory disorders (e.g. asthma) obseinty, anorexia, cancer-associated cachexia, neurodegenerative disorders (e.g. Alzheimer's disease, Parkinson's

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to an antisense oligonucleotide compound of 8 to 50 nucleotides in length that is targeted to a nucleic acid molecule encoding caspase 6, where the oligonucleotide specifically hybridises with and inhibits the expression of caspase 6. The oligonucleotide of the invention specifically hybridises to and inhibits expression of caspase 6 in cells or tissues. The oligonucleotides can be administered therapeutically or prophylactically to treat an animal having a disease or condition associated with caspase 6, such as Rieger's syndrome or ataxia telangiectasia, hyperproliferative disorder, a haematopoietic disorder, a bone mecabolism or cholesterol disorder, various types of cancer, neurological conditions such as Alzheimer's disease and other deregulated apoptoric pathological conditions. This polynucleotide sequence represents a mouse caspase 6 oligonucleotide relating to the invention.

NOTE: This phosphorothioate oligonucleotide sequence has 2'-MOE wings and
disease), immune disorders, graft versus host disease, Crohn's disease, multiple sclerosis, haemophilia, idiopathic thrombocytopenic purpura, and infectious diseases (e.g. bacterial, fungal, protozoal or viral infections). The polymucleotide sequences are also useful in gene therapy. The present sequence represents a real time quantitative (RTQ)-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Muscular, cytostatic; nootropic; neuroprotective; ophthalmological; antilipemenic; osteopathic; caepase 6; Rieger's syndrome; bone metabolism; ataxia telangiectasia; hyperproliferative disorder; cholesterol disorder; haematopoietic disorder; cancer; neurological; Alzheimer's disease;
                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            An antisense oligonucleotide of 8 to 50 nucleotides in length that inhibits caspase 6, is useful for treating Rieger's syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mouse caspase 6 antisense inhibition related oligo SEQ ID No 119.
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                                                                                                                                                                                         Query Match 0.8%; Score 13.8; DB 1; Length 20; Best Local Similarity 88.2%; Pred. No. 8.6e+02; Matches 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                   Sequence 20 BP; 10 A; 3 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 4 A; 7 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                            PCR primer used in NOVX expression studies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Watt AT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 3; Page 92; 141pp; English.
                                                                                                                                                                                                                                                                                 1240 TICALCITCCGIAICTI 1256
                                                                                                                                                                                                                                                                                                                                                                                                                                AAL40400 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         apoptotic; mouse; murine; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-OCT-2001; 2001WO-US030871.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-OCT-2000; 2000US-00679299.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ħ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-SEP-2002 (first entry)
                                                                                                                                                                                                                                      15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Brown-Driver VL, Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-471315/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200229066-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      deoxy gap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAL40400;
                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1094
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ID AAL4
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The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in method comprises: (a) clones of the genomic libraries contained in the multiwell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) a signal corresponding to the marker is detected from the resultant applied product to specify the discrimination Nos. of the multiwell plates containing the clones having said marker sequence; (d) the order of the maxfexer is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the multiwell plates of the specified discrimination Nos. are mixed respectively in each wells of longitudinal and lateral directions; (f) the maxed clones are cultured and the resultant cultures are amplified by using the above primer; (g) signals are detected from the amplified by using the above primer; (g) signals plates are specified from the detected result; and (i) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis, Abi42957 to Abi45322 represent per represent PCR primers for human chromosome 21q22.1, which are seprement for human chromosome 21q22.1, which are expresent represent present present invention in the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; MEKK4 modulation; mitogen-activated protein kinase kinase 4; MTK1;
                                                                                                                                       Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human MEKK4 antisense oligonucleotide, ISIS #123107.
                                                                                                 Human chromosome 1p36-35 PCR primer SEQ ID NO:752.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; Page 19; 528pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             479 CACTACCAGCTGACATC 495
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                                                                                                                                                                                                                                                                                                                                                 10-MAR-2000; 2000JP-00066716.
                                                                                                                                                                                                                                                                                                           12-MAR-2001; 2001JP-00068285.
                                                                                                                                                                                                                                                                                                                                                                                   (RIKA ) RIKAGAKU KENKYUSHO.
(GENO-) GENOTEX YG.
                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Arraying genome clones.
                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-144136/19.
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                           PCR primer; ss.
                                                                                                                                                                                                                                  JP2001321190-A.
                                                                                                                                                                                                Homo sapiens.
                                                            11-APR-2002
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                        ABL43708;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a new antisense compound, comprising 8-30 nucleobases targeted to a nucleic acid molecule encoding human cytohesin.

1, specifically hybridises with, and inhibits the expression of, human cytohesin.1, a guanine nucleotide exchange protein for ARF (ADF ribosylation factor). The antisense compound may be used in a pharmaceutical composition for inhibiting the expression of cytohesin.1 in human calls or tissues, and in treating a disease or condition associated with cytohesin.1 by administering to the human the antisense compound e.g. tumour or inflammation. The antisense compound e.g. tumour or inflammation. The antisense compound is also useful for diagnostics, therapeutics, prophylaxis and as research reagents and kiter. The present sequence is an antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New antisense oligonucleotide encoding human cytohesin-1, useful for preventing or treating a disease or condition associated with cytohesin-1 expression e.g. tumor or inflammation.
                                                                                                                                                                                                                                                                                                                                                             nn, antisense; cytohesin-1; guanine nucleotide exchange protein; ARF;
ribosylation factor; inflammation; antiinflammatory; tumour;
                                          Gaps
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                                                                                                                                                                                                                                                                                                                         Human cytohesin-1 3' UTR antisense oligonucleotide, ISIS#111045.
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ch 0.8%; Score 13.8; DB 1; Length 20; I Similarity 88.2%; Pred. No. 8.6e+02; 15; Conservative 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 1 A; 11 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bennett CF, Rothlein R, Kishimoto TK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ISIS-) ISIS PHARM INC.
(BOEH ) BOEHRINGER INGELHEIM PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 15; Page 81; 107pp; English
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                                                                          211 CAGATAGGCCTGGATGA 227
                                                                                                                                                                                                              BP.
                                                                                                               3 cccacadecerecarda 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           targeting human cytohesin-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            733 GCACCCTGCACCGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 1096
ABL43708
ID ABL43708 standard; DNA; 20
                                                                                                                                                                                                            ABS73952 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 GCGCCCTGCACCCCT
                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-723198/78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200268584-A2.
                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                      06-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 36-SEP-2002.
                                                                                                                                                                                                                                                  ABS73952;
  Query Match
Best Local (
                                                                                                                                                                         RESULT 1095
                                    Matches
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Gaps

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2; Indels

0.8%; Score 13.8; DB 1; 88.2%; Pred. No. 8.6e+02; ive 0; Mismatches 2;

150 GCAGCTGTCAATGACAC 166

15; Conservative

Query Match Best Local Similarity Matches 15; Conserv

18 GCAGTTGTCAAGGACAC

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The present invention relates to antisense compounds, compositions and methods for modulating the expression of MEKK4 (also referred as mitogencrivated protein Kinase kinase 4; MAPSK4 MAP Phree Kinase 1; MAP/ERK kinase kinase 4; MAPKKK4; MTK1). The antisense oligos are useful for inhibiting the expression of MEKK4 in cells or tissues. They are also useful for treating an animal having a disease or condition associated with MEKK4 such as immunological, inflammatory, hyperproliferative disorder or cancer. Sequences of the invention are also useful for They are also useful in antisense therapy. The present sequence is an antisense oligonucleotide targetted to human MEKK4 DNA. This sequence is used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;
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MAP3K4; MAP three kinase 1; MAP/ERK kinase kinase 4; MAPKKK4; cytostatic; prophylaxis; immunological; hyperproliferative disorder; cancer; therapy; antisense; inflammatory; phosphorothioate backbone; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New antisense compound targeted to nucleic acid encoding mitogen-
activated protein kinase 4, useful for treating immunologic disorder,
inflammatory disorder or cancer.
                                                                                                                                                                                                                                                                /mod_base= OTHER
/note= "2'-methoxyethyl nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note= "2'-methoxyethyl nucleotides"
                                                                                                                                                                                                            'note= "Phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ward DT, Gaarde WA, Monia BP, Wyatt JR,
                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16. .20
/*tag= c
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 3; Page 92; 132pp; English
                                                                                                                                                                                        base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mod_base= m5c
16. .20
                                                                                                                                                                                                                                                                                                                                                                                                 mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                         'mod_base= m5c
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                                                                                                                                                                                                                                                                                                                                          base= m5c
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                                                                                                                                                                                                                                                                                                                                        mod,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-416486/44.
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                                                                                                                                  Key
modified_base
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                                                                                                                                                                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-APR-2002
                                                                                              Synthetic.
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Human; methylated gene; methylation; breast cancer; marker; WT-1; cell proliferative disorder; WWST; HOXA5; NES-1; RABbeta; cyclin D2; retinoic acid receptor beta; oestrogen receptor; Wilms' tumour; 14.3.3 sigma; HIN-1; RASSFIA; tumour suppressor gene; hypermethylation;

PCR; primer; ss.

WO200259347-A2. Homo sapiens.

01-AUG-2002.

Cyclin 14-3-3 sigma gene PCR primer #14.

07-NOV-2002

ABT06434;

ABT06434 standard; DNA; 20 BP.

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The present invention relates to a method of diagnosing a cellular proliferative disorder of breast tissue, which involves determining the state of methylation of one or more nucleic acids isolated from the subject, where the state of methylation of the nucleic acids as compared with a state of methylation from a subject not having the cellular proliferative disorder of breast tissue is indicative of a cellular proliferative disorder of breast tissue in the subject. The nucleic acids may be TWHST, HOXAS, NBS-1, retinoic acid receptor beta (RABDEta).

Costrogen receptor, cyclin D2, Wilms' tumour gene (WT-1), 14.3.3 sigma, HIN-1 or RASSFLA. The method is useful for diagnosing and/or determining a predisposition to a cellular proliferative disorder, in particular proliferative disorder, in particular carcinoma, colloid carcinoma, tubular carcinoma, medullary carcinoma, metaplastic carcinoma, tubular carcinoma, medullary carcinoma, metaplastic carcinoma in situ. The present sequence is a primer used in the exemplification of the invention
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88.2%; Pred. No. 8.6e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 12; Page 46; 115pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   843 TGAGTACCTGGACAAGG 859
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Best Local Similarity 88.2°
Matches 15; Conservative
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Davidson N, Fackler MJ;

Sacchi N,

Dooley WC,

Sukumar S, Evron E, WPI; 2002-599803/64.

(UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.

28-JAN-2002; 2002WO-US002455. 26-JAN-2001; 2001US-00771357. Diagnosing and/or determining a predisposition to a cellular proliferative disorder of breast tissue, in particular breast cancer, determining the state of methylation of one or more nucleic acids isolated from the subject.

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ABZ30969 standard; DNA; 20 BP.
                                                                                                                29-DEC-2000; 2000US-0259128P.
20-FEB-2001; 2001US-00792024.
22-AUG-2001; 2001US-0314050P.
18 rcacraccecacades 2
                                                                                                        26-DEC-2001; 2001WO-US049486.
                                        (first entry)
                                                                                                                                   ELIT-) ELITRA PHARM INC.
                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
--aq 15; Conserve
                                                                                                                                            Jiang B,
                                                                                                                                                     WPI; 2002-566694/60
                                                                            Candida albicans.
                                                                                      WO200253728-A2
                                        30-JAN-2003
                                                                                                                                                                                                                                                                                                           Seguence 20
                                                                                               11-JUL-2002
                                                                                                                                            Roemer T,
                               ABZ30969;
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The invention relates to constructing (M1) a strain of diploid fungal cells in which both alleles of a gene are modified, comprising modifying cells in which both alleles of a gene are modified, comprising modifying one allele by insertion or replacement fragment with a heterologous promoter, so that expression of the second allele by the promoter replacement fragment with a heterologous companies. (M1) is useful for constructing a strain of diploid fungal cells in which both alleles of a gene are modified. The diploid fungal cells having both alleles modified are useful for identifying a gene that cells in which both alleles and/or pathogenicity of a fungus, a gene that contributes to the virulence and/or pathogenicity of a fungus, a gene that contributes to the resistance of a diploid fungus to an antifungal agent that inhibits the growth of a diploid fungus and for identifying a therapeutic agent for treatment of a mammalian disease. (M1) is useful for identifying a compound which modulates the compound catabolism, blosyntheric, transporter, transcriptional, transduction, DNA replication and cell division cativity. The method is useful for identifying a compound having the ability to inhibit growth or prolifezation of C. albicans cells and for treating infection by C. albicans. The present sequence is that of a pork primer used in the method of the invention. Note: The sequence data for this patent is not represented in the printed specification but is based on sequence information supplied to Derwent by the European Patent Office
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Constructing strains for identifying gene products as effective targets for therapeutic intervention, by inactivating in the strain one allele of a gene and placing other allele of the gene under conditional expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Fungus; yeast; tetracyclin; promoter; GRACE strain; biosynthesis;
signal transduction; DNA replication; cell division; growth;
proliferation; Candida albicans; fungicide; antifungal; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 36; SEQ ID NO 5598; 167pp + Sequence Listing; English.
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                                                                                                                                                                                                                                                                                                                                                                                      Candida albicans GRACE strain PCR primer SEQ ID NO 5598.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bussey H,
1717 CTGAGCCATGTTCACCT 1733
                                                            20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-DEC-2000; 2000US-0259128P.
20-FEB-2001; 2001US-00792024.
22-AUG-2001; 2001US-0314050P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26-DEC-2001; 2001WO-US049486
                                                                                                                                                                                                        ABZ31379 standard; DNA; 20
                                      CTGAGCCTTGTGCACCT
                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Jiang B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-566694/60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Candida albicans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200253728-A2.
                                                                                                                                                                                                                                                                                                                                30-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-JUL-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roemer T,
                                                                                                                                                                                                                                                                    ABZ31379;
                                                                                                                                                  RESULT 1100
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                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to constructing (M1) a strain of diploid fungal cells in which both alleles of a gene are modified, comprising modifying one allele by insertion or replacement by a cassette having an oversesible selectable marker and modifying other allele by recombination, of a promoter replacement fragment with a heterologous promoter, so that expression of the second allele is regulated by the promoter. (M1) is useful for constructing a strain of diploid fungal cells in which both alleles of a gene are medified. The diploid fungal cells in which both alleles of a gene are useful for identifying a gene that is essential to the survival or growth of a fungus, a gene that contributes to the virulence and/or pathogenicity of a fungus, a gene that contributes to the resistance of a diploid fungus to an antifungal agent that inhibits the growth of a diploid fungus and for identifying a therapeutic agent for treatment of a mammalian disease. (M1) is useful for identifying a compound which modulates the compound catabolism, biosynthetic, transporter, transcriptional, transduction, DNA replication and cell division cativity. The method is useful for identifying a compound having the ability to inhibit growth or proliferation of C. albicans cells and for treating infection by C. albicans. The present sequence is that of a PCR primer used in the method of the invention. Note: The sequence data for this patent is not represented in the printed specification but is based on sequence information supplied to Derwent by the European Patent Office
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           or therapeutic intervention, by inactivating in the strain one allele of gene and placing other allele of the gene under conditional expression.
                                                                                                                                                                                                                                                                                                                                                                                                         Fungus; yeast; tetracyclin; promoter; GRACE strain; biosynthesis;
signal transduction; DNA replication; cell division; growth;
proliferation; Candida albicans; fungicide; antifungal; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Constructing strains for identifying gene products as effective targets
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 36; SEQ ID NO 5188; 167pp + Sequence Listing; English.
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llarity 88.2%; Pred. No. 8.6e+02;
Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                          Candida albicans GRACE strain PCR primer SEQ ID NO 5188.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ohlsen KL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 3 A; 7 C; 5 G; 5 T; 0 U; 0 Other;
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Gaps ; 0

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0; Mismatches

15; Conservative

Matches

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Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                Example 11; Col 35-36; 173pp; English.
                                                                                                                                                                                                                                                    Loper JC,
AGCCGATGCCCTTTGGA 17
                               ABK31851 standard; DNA; 20 BP.
                                                                                                                                                         98US-0083798P.
98US-0103099P.
99US-0123555P.
                                                                                                                                              99US-00302620
                                                      (revised)
(first entry)
                                                                                                             Candida tropicalis, 20336.
                                                                                                                                                                                                                                             Craft DL,
Tang M,
                                                                                                                                                                                    CRAFT D L.
EIRICH L D.
ESHOO M.
MADDURI K M.
CORNETT C A.
BRENNER A A.
TANG M.
LOPER J C.
GLEESON M.
                                                                                                                                                                                                                                                              WPI; 2002-138383/18.
                                                                                                                                                                                 WILSON C R.
                                                                                                                                                                                                                                                   Brenner AA,
                                                                                                                        US6331420-B1
                                                                                                                                              30-APR-1999;
                                                                                                                                                         01-MAY-1998;
                                                     29-AUG-2003
23-APR-2002
                                                                                                                                                                     10-MAR-1999;
                                                                                                                                   18-DEC-2001.
                                                                                                                                                                05-0CT-1998
                                                                                                                                                                                                                                              Wilson CR,
                                          ABK31851;
                                                                                                                                                                                     (CRAF/)
(EIRI/)
(ESHO/)
(MADD/)
(CORN/)
                                                                                                                                                                                                                      (TANG/)
(LOPE/)
(GLEE/)
                    RESULT 1101
                          ABK3185
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The invention relates to a nucleic acid encoding a adipose (ADP)
polypeptide which requlates, causes or contributes to obesity in an animal or a human. The polynucleotides, proteins, ant-adp antibodies, modulators of adp activity, adp antisense mucleic acids, expression vectors, adp transgenic animals are useful in the diagnosis and treatment of obesity, adiposites, bulimia, wasting (cachexia), eating disorders and/or disorders of body weight/body mass, weight loss due to cancer or infectious diseases, genetic disorders associated with hypogonadism e.g. prader-Willi syndrome, laurence-Moon-Biedl syndrome, hypothyroidism, diabetes, Cushing's syndrome, endocrine disorders, gastrointestinal diseases, inflammatory bowel disease, ulcerative colitis, and anorexia nervosa. They are also useful for treating disorders of body weight/mass creating ineart disease, and lipid storage diseases and for for treating conditions associated with under weight e.g. enhancing or controlling fertility, controlling weight loss in acquired immunodeficiency syndrome (AIDS) or cancer patients. The present sequence is a PCR primer used to amplify an adp nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Adipose protein; se; adp; obesity; transgenic animal; obesity; adipositas; bulimia; wasting; cachexia; eating disorder; blooder; 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel nucleic acid encoding adipose polypeptide which regulates, cause or contributes to obesity, useful for treating obesity, heart disease, hypertension, infertility, and controlling weight loss in cancer patients.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rothe M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dohrmann C, Haeder T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mouse adipose protein, adp, PCR primer #4.
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                                                    1010 AGAGGGAGAGCTCAAG 1026
                                                                                                                                         13
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23-JUN-2000; 2000EP-00113049.
28-JUN-2000; 2000US-021451BP.
17-APR-2001; 2001EP-00109537.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-JUN-2001; 2001WO-EP006713
                                                                                                                                                                                                                                                                                                                                                              ABK16359 standard; DNA; 20
                                                                                                                                         2 AGAGGGCAGGGCTCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (DEVE-) DEVELOGEN AG.
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                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to the isolation of Candida tropicalis 20336 novel genes (CPRA, CPRE, CYP52A1A, CYP52A2A, CYP52A3A, CYP52A3B, CYP52A3A, CYP52A3B, CYP5ABA, CANDIDA, CYP5ABA, CYP5A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel isolated nucleic acid encoding cytochrome P450 and NADPH reductase enzymes of omega-hydroxylase complex of Candida tropicalis, useful for increasing production of dicarboxylic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CPRA; CPRB; CYP52AlA; CYP52A2A; CYP52A2B; CYP52A3A; CYP52A3B; CYP52A5A; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A5B; CYP50Chrome P450; NADPH2 reductase; omega-hydroxylase complex; dicarboxylic acid; se; quantitative competitive reverse transcription PCR; QC-RT-PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Madduri KM, Cornett CA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Candida tropicalis CYP52A5A/CYP52A5B gene QC-RT-PCR primer 7581-97-F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eirich LD, Eshoo M,
Loper JC, Gleeson M;
1335 AGCCGAGGCCCTTTTGA 1351
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causes

Length 20;

Score 13.8; DB 1; Pred. No. 8.6e+02;

0.8%;

Query Match Best Local Similarity

AAD44838;

RESULT 1103

6

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The sequence represents a mouse syndecan-1 reverse transcription PCR primer. The invention relates to a novel use of a Smad3 inhibitor in preparing a medicament to treat or prevent wounds or fibrosis. The invention has antifibrotic and vulnerary activity. The Smad3 inhibitors are useful for preventing fibrosis and improving wound healing. The Smad3 protein, polypeptides and peptide fragments are useful for generating antibodies, as reagents for research purposes, or the identification of other cellular gene products involved in the regulation of fibrosis and improvement of wound healing, as reagents in assays for screening for of wound healing, and as pharmaceutical reagents in protecting against fibrosis and improving wound healing related to Smad3. Compounds that can be used in the prevention of fibrosis and improving wound healing related to Smad3. Compounds that fibrosis may be used in inhibiting the activity of wild type and/or mutant Smad3 gene products, in elaborating the biological function of Smad3, and in identifying compounds that disrupt normal Smad3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Use of Smad3 inhibitors in preparing a medicament for treating or preventing wounds or fibrosis, or as reagents in assays for screening compounds for preventing fibrosis and improving of wound healing.
                                                                                                                                                                                                 Smad3; wound healing; fibrosis; antifibrotic; vulnerary; mouse; PCR primer; reverse transcription; syndecan-1; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02;
                                                                                                                                                          Mouse syndecan-1 reverse transcription PCR primer #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roberts AB, Ashcroft GS, Russo A, Mitchell JB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (USSH ) US DEPT HEALTH & HUMAN SERVICES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example; Page 38; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1093 ACACTGTGGTACCGGCC 1109
                         ABA96039 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17
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                                                                                                                                                                                                                                                                                                                                                                                                     19-MAY-2000; 2000WO-US013725
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                                                                                                                (first entry)
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Best Local Similarity 88.2
Matches 15; Conservative
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                                                                                                                  08-APR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-AUG-2002
                                                                                                                                                                                                                                                                                                                                                           29-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABQ66488;
                                                                                                                                                                                                                                                                       Mus sp.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to novel antisense oligonucleotides which are targetted to nucleic acids encoding human raf proteins and capable of inhibiting raf expression. The invention also relates to methods of inhibiting hyperproliferation of cells which involves contacting the hyperproliferating cells with a therapeutically effective amount of an oligonucleotide of the invention. The method is useful for treating cancer, anglogenesis or neovascularisation, especially ocular anglogenesis or neovascularisation. The present DNA sequence is human raf
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Raf kinase; hyperproliferation; neovascularisation; ocular angiogenesis;
therapy; cancer; cytostatic; anti-angiogenic; vascular; ophthalmological;
antisense; ss.
                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Treating cancer, angiogenesis or neovascularization by administering antisense oligonucleotides targeted to human raf sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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0
                                          0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 0.8%; Score 13.8; DB 1; Length 20; Best Local Similarity 88.2%; Pred. No. 8.6e+02; Matches 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                 Human raf kinase related antisense oligonucleotide #17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 6 A; 10 C; 0 G; 4 T; 0 U; 0 Other;
SQ . Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          kinase related antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Col 59; 41pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1152 TGACATGTGGGGTGTGG 1168
                                                                                                                              867 GCAGTACCTGGATGACT 883
                                                                                                                                                                                                                                                                                 AAD44838 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 95WO-US007111.
95US-00756806.
97US-00888982.
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                                                                                                                                                          18 GGAGTGCCTGGATGACT
                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                       Query Match 0.8
Best Local Similarity 88.2
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-597918/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unidentified
                                                                                                                                                                                                                                                                                                                                                                         13-DEC-2002
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Monia BP;

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Deng

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Cytohesin-1; CT1; inhibit; cytostatic; antiinflammatory; cytostatic;
Human cytohesin-1 mRNA levels inhibitor #57.
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ò 엄 RESULT 1104

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Gaps

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2; Indels

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The invention relates to a novel antisense compound of 16-30 nucleotides targeted to any of 71 specified regions of the sequence that encodes human cytohesin-1 (CT1), where the compound hybridises and inhibits expression of human CT1. The compound of the invention has antiinflammatory, cytostatic, and anti-infective activity. The antisense compounds may have a use in antisense gene therapy. The antisense compounds are useful for treating or preventing disorders associated with expression of human CT1, e.g. infections, inflammation and tumours, and as research and diagnostic reagents. Sequences ABQ66412-ABQ6651 represent chimeric phosphorchioate oligonucleotides, with 2'-WOE wings and a deoxy gap. The claimed sequences inhibit production of cytohesin-1
anti-infective; antisense gene therapy; infection; inflammation; tumour;
human; ss; inhibitor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; K-ras; PCR primer; probe; capture probe; mutation detection; ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; observing ancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.
                                                                                                                                                                                                                                                                                                                               New antisense compounds directed against human cytohesin-1, useful treating and preventing infection, inflammation and tumors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 1 A; 11 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Capture oligonucleptide Zip ID#2505 oligo #9.
                                                                                                                                                                                                                                                                                                                                                                               Claim 14; Col 41; 40pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  733 GCACCCTGCACCGCCAT 749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 degeceraciación 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABI95418 standard; DNA; 20 BP.
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                                                                                                                                                        30-OCT-2000; 2000US-00702246.
                                                                                                                                                                                         30-OCT-2000; 2000US-00702246
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity 88.2
nes 15; Conservative
                                                                                                                                                                                                                                                           Bennett CF, Cowsert LM;
                                                                                                                                                                                                                            (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                              WPI; 2002-478385/51.
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                                                                                  US6383809-B1
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                                                                                                                       07-MAY-2002
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                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABI95418;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
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Matches
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The present invention describes a method (M1) for designing capture oligonuclectide probes (I) for use on a support to which complementary oligonuclectide probes (II) will hybridise with little mismatch, where oligonuclectide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents of a Salmonolla, listeria monocytogenes and Haemophilus influenza, fungal infectious agents and pollo virus, and parasitic infectious agents of papergillus fumigautus, viruses e.g. T-cell lymphocytotrophis cirus, papergillus fumigautus, viruses e.g. T-cell lymphocytotrophis cirus, selected from Ontoverva volvulus, Entamoeba histolytica and Dracunculus medinesis. The method is also useful for detecting genetic diseases such as 1 hydroxylase deficiency. Turner Syndrome and obesity defects.

CC detecting cancer involving oncogenes, tumour suppressor genes or genes involved in DNA amplification, replication, recombination or repair, the cancer is specifically associated with a gene selected from BRCA1 gene, p53 gene, human papillomavirus types 16 and 18 and liver cancers. The method is also used for environmental monitoring, forensics and the food and feed industry, detecting comprises scanning electron microscope and infrared microscope) the support at the particular sites and identifying if ligation of the oligonucleotide sequences. Balba2014 to a presence or absence of the target micleotide sequences. Balba2014 to a balba2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human, K-ras, PCR primer; probe; capture probe; mutation detection; ligase detection reaction; LDR; p53; BRCAL; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forenaic; environmental monitoring; food industry; feed industry; ss.
                                                                                                                                                                  Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 5 A; 8 C; 4 G; 3 T; 0 U; 0 Other;
                                                                    Kliman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Capture oligonucleptide Zip ID#518 oligo #9.
                                                                      Favis R,
                                                                                                                                                                                                                                              Example 5; Fig 29; 300pp; English
                                                                      Gerry NP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 288 ACTICGITCIGCACGG 304
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                    (CORR ) CORNELL RES FOUND INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-APR-2001; 2001WO-US010958.
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nes 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of the present invention
                                                                    Barany F, Zirvi M,
                                                                                                                   WPI; 2002-034366/04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
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Matches
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0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.68+02; rative 0; Mismatches 2; Indels

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(TAKE ) TAKEDA CHEM IND LTD.

Mon May

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The present invention describes a method (M1) for designing capture oligonucleotide probes (I) for use on a support to which complementary oligonucleotide probes (II) will hybridise which little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents e.g. Salmonella, listeria monocytogenes and Haemophilus influenza, fungal infectious agents e.g. Cryptococcus neoformans, Candida albicans and Aspergillus fumigautus, viruses e.g. T-cell lymphocytotrophis cirus, Epsterin-Barr virus and pollowirus, Entamoeba histolytica and Dracunculus selected from Onchoverva volvulus. Entamoeba histolytica and Dracunculus medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency. Turner Syndrome and obesity defects. Detecting cancer involving oncogenes, tumour suppressor genes or genes involved in DNA amplification, recombination or repair, the cancer is specifically associated with a gene selected from BRCA1 gene, psi gene, human papillomavirus types 16 and 18 and liver cancers. The method is also used for environmental monitoring, forensics and the food and feed industry, detecting comprises scanning cancer as the administrated and correlating (using a computer) identified ligation to a presence or absence of the target nucleotide sequences. AB183074 to AB197546 represent oligonucleotide sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rat; rZAQ1; rZAQ2; G protein-coupled receptor; GPCR; antidiarrheic; laxative; drug development; digestive organ disease; colitis; diarrhoea; constipation; malabsorption syndrome; diagnosis; gene therapy;
                                                                                                                              Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2; Indels
                                                     Kliman R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 5 A; 5 C; 8 G; 2 T; 0 U; 0 Other;
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88.2%; Pred. No. 8.6e+02;
tive 0; Mismatches 2;
                                                     Favis R,
                                                                                                                                                                                       Example 5; Fig 29; 300pp; English
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                                                       Gerry NP,
                (CORR ) CORNELL RES FOUND INC.
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ABL50712 standard; DNA; 20
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                                                       Zirvi M,
                                                                                           WPI; 2002-034366/04
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tes 15; Conserv
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                                                       Barany F,
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Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                 The present invention describes human and rat brain-originated G protein-
coupled receptor (GPCR) proteins. The GPCR sequences have antidiarrheic
and laxarive activities. The GPCR sequences can be used for developing
drugs to treat diseases of the digestive organs, e.g. colitis, diarrhoea,
constipation and malabsorption syndrome, including gene diagnosis and
therapy. The present sequence represents a PCR primer for rat GPCR, which
is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human, antisense; lung dysfunction; nasal airway dysfunction; antiallergic; antiallamatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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                                                                                                                 encoded DNAs, for developing drugs to treat diseases of the digestive organs, e.g. colitis, diarrhea, constipation and mal-absorption syndrome.
                                                                                                  and rat brain-originated G protein-coupled receptor proteins and
                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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88.2%; Pred. No. 8.6e+02;
ative 0; Mismatches 2; Indels
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Tang L, Shahabuddin S;
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                                                                                                                                                                    Example 5; Page 77; 135pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human oligonucleotide sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                              862 CTGAAGCAGTACCTGGA 878
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Best Local Similarity 88.2
Matches 15; Conservative
                               Shintani Y;
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                                                              WPI; 2002-269361/31.
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Miller S,
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                               Terao Y,
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Gaps

24-AUG-2000; 2000JP-00253862.

23-AUG-2001; 2001WO-JP007209.

WO200216607-A1.

Rattus sp.

28-FEB-2002

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Page

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first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an natifilammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing levels of adenosine of receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, luck sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at fig. wipo.int/pub/published_pot_sequences
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Sequence 20 BP; 4 A; 4 C; 5 G; 7 T; 0 U; 0 Other;

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                                   Gaps
                                   ;
Ouery Match 0.8%; Score 13.8; DB 1; Length 20; Best Local Similarity 88.2%; Pred. No. 8.6e+02;
                                   2; Indels
                                   0; Mismatches
                                     15; Conservative
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58 IGACIGCIGAAACCCAG 74 19 rgacrgcrgaaaracag 셤

Human oligonucleotide sequence. ABZ89410 standard; DNA; 20 BP. (first entry) 17-OCT-2003 ABZ89410; RESULT 1110 AB289410/7

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AB289

XX
AB289

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AB289

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AB289

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AB289

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Human

XX
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Human, antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy, respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.

Homo sapiens.

WO200285308-A2

31-OCT-2002.

23-APR-2002; 2002WO-US013135.

24-APR-2001; 2001US-0286137P.

(EPIG-) EPIGENESIS PHARM INC.

Aguilar D; Pabalan J, Sandrasagra A, Katz E, L, Shahabuddin S; Li Y, San Tang L, Miller S, Nyce JW,

WPI; 2003-229219/22.

Pharmaceutical composition for treating allments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or ubiquinone

Pharmaceutical composition for treating ailments associated with impaired

WPI; 2003-229219/22.

respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or ubiquinone.

The invention relates to a novel pharmaceutical composition, which has a

ID NO 12873; 872pp; English.

Disclosure; SEQ

Disclosure; SEQ ID NO 4652; 872pp; English.

The invention relates to a novel pharmaceutical composition, which has a

first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an new partial flankmatory steroid and ubjquinone. A composition of the invention has antiinflammatory, antiallargic, antiashmatic, hypotensive, immunosuppressive, and cytostaric activity. The composition may have a test an antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing levels of adenosine ceptor, producing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, luck: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO cat fip. WIPO.int/pub/published\_pot\_sequences ò Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiathmatic; processive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; Gaps ä ò Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar Tang L, Shahabuddin S; Match 0.8%; Score 13.8; DB 1; Length 20; Local Similarity 88.2%; Pred. No. 8.6e+02; es 15; Conservative 0; Mismatches 2; Indels Sequence 20 BP; 6 A; 6 C; 2 G; 6 T; 0 U; 0 Other; lung inflammation; respiratory disease; ds Human IL5-R oligonucleotide sequence. 343 TIGAAGAIGGGGICIGA 359 ABZ97631 standard; DNA; 20 BP. 24-APR-2001; 2001US-0286137P. 23-APR-2002; 2002WO-US013135. (EPIG-) EPIGENESIS PHARM INC. 20 rrcaacarcaacrcrca 4 17-OCT-2003 (first entry) WO200285308-A2 Homo sapiens. 31-OCT-2002. Nyce JW, I Miller S, ABZ97631; Query Match RESULT 1111 Matches ABZ9763 à 엄

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first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 mucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiathmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a companization at sepiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of an antiinflammation, lung allowed in creceptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, ung inflammation, lung allowed in a subject's tissue, or treating bronchoconstriction, lung surfactant in a subject's tissue, or treating bronchoconstriction, lung surfactant in a subject's tissue, a respiratory disease or condition.

Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at fig. they wipo.int/pub/published_pot_sequences
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Match 0.8%; Score 13.8; DB 1; Length 20; Local Similarity 88.2%; Pred. No. 8.6e+02; les 15; Conservative 0; Mismatches 2; Indels
                                                                                 1460
                                                                                                         3 ATGAAGCATCCATACTT
                                                                                    1444 ATGAAACATCCATTCTT
      Query Match
                         Best Loca
Matches
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Gaps

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ABZ91330 standard; DNA; 20 ABZ91330; RESULT 1112 ABZ91330 

BP

(first entry) 17-0CT-2003

Human oligonucleotide sequence.

Human, antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.

Homo sapiens,

WO200285308-A2.

31-OCT-2002.

24-APR-2001; 2001US-0286137P.

23-APR-2002; 2002WO-US013135.

Katz E, Li Y, Sandrasagra A, K. Tang L, Shahabuddin S; (EPIG-) EPIGENESIS PHARM INC Nyce JW, I Miller S,

Pabalan J, Aguilar

WPI; 2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid

Disclosure; SEQ ID NO 6572; 872pp; English.

The invention relates to a novel pharmaceutical composition, which has

The invention relates to a novel pharmaceutical composition, which has a

Disclosure; SEQ ID NO 8608; 872pp; English

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first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' or 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antinfilammatory steroid and ubiquinone. A composition of the invention cantinifilammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a new antinfilammatory, lung or malignant disease or condition, also preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antinflammatory steroid in a subject, for reducing levels of adenosine receptor, producing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, lung surfactant in a subject's tissue, or treating bronchoconstriction, lote: The sequence data for this patent is not respresented in the printed specification, but was obtained in electronic format directly from WIPO cat fip.wipo.int/pub/published_pot_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human, antisense; lung dysfunction, nasal airway dysfunction, antiinflammatory steroid, ubiquinone, antiinflammatory, antiallergic; antiasthmatic; hypoteneive; immunosuppressive; cytostatic; gene therapy, antisense gene therapy, respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.
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, Tang L, Shahabuddin S;
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Miller S,
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first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an initial ammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiathmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antishfammatory steroid in a subject, for reducing or depleting levels of antishfammatory steroid in a subject, for reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactent in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence date for this patent is not represented in the printed or specification, but was obtained in electronic format directly from WIPO ftp.wipo.int/pub/published\_pct\_sequences

Sequence 20 BP; 2 A; 3 C; 9 G; 6 T; 0 U; 0 Other;

; 0 . Match 0.8%; Score 13.8; DB 1; Length 20; Local Similarity 88.2%; Pred. No. 8.6e+02; es 15; Conservative 0; Mismatches 2; Indels Query Match Best Loc Matches

548 ACAAGCCCCTCAGCCGC 564 ~ 18 ACAAGGCCCTCAACCGC g

RESULT 1114 ABZ857 

ABZ85750 standard; DNA; 20

ВР.

ABZ85750;

(first entry) 17-OCT-2003

Human oligonucleotide sequence.

Human, antisense; lung dysfunction, nasal airway dysfunction, antinifammatory; antiallergic; antialfammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.

Homo sapiens.

WO200285308-A2.

31-OCT-2002.

23-APR-2002; 2002WO-US013135.

24-APR-2001; 2001US-0286137P.

(EPIG-) EPIGENESIS PHARM INC.

Katz E, Pabalan J, Aguilar D; ŝ Li Y, Sandrasagra A, Tang L, Shahabuddin Nyce JW, I Miller S,

WPI; 2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid ubiquinone

Claim 15; SEQ ID NO 992; 872pp; English.

The invention relates to a novel pharmaceutical composition, which has a

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first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory seroid and ubiquinone. A composition of the invention has antiinflammatory, antiallargic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of adenosine receptor, producing bronchodoidation, increasing levels of adenosine receptor, producing bronchodoidation, increasing levels of adenosine receptor, producing bronchodoidation, increasing bronchoconstriction, lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition.

Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at ftp. wipo.int/pub/published_pot_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human, retinal pigmented epithelium derived neurotrophic factor; PEDF; retinal disease, retinal tumour; retinoblastoma; retinal detachment, neuronal-retinal tumour; macular degeneration; retinitis pigmentosa; diabetic retinopathy; inherited and age-related pathology; tumour; ocular disease; nerve injury; serine protease related disorder; cytostatio; ophthalmological; antiinflammatory; antidiabetic; PCR; primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; ative 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    212 AGATAGGCCTGGATGAG 228
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92US-00952796.
94US-00279979.
95US-00377710.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17 AGATGGGCCTGTATGAG
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Matches 15; Conserv
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24-SEP-1992;
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25-JAN-1995;
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         8888888888888888888888888888888888888
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The present invention relates to the isolation of a human retinal pigmented epithelium derived neurotrophic factor (FBDF), and polymucleotide sequences encoding it. The gene encoding human PEDF maps to chromosome 17p13.1-pter. The invention also describes a truncated version of PEDF referred to as PEDF-BH, vectors comprising nucleic acids encoding PEDF or PEDF-BH, and a method of using these sequences to treat retinal diseases such as retinal tumours (e.g. retinoblastoma), neuronal-retinal tumours, macular degeneration, retinitis pigmentosa, retinal detachment, diabetic retinopathy, inherited and age-related pathologies, tumours, coular diseases, nerve injuries, and conditions resulting from the activity of serine proteases. The present sequence represents a PCR primer used to isolate human PEDF genomic clones
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention describes a method (M) for generating a substantially homogeneous population of undifferentiated cells (UC) from a biological sample (BS), which comprises subjecting BS or its sub-sample to tissue-disruption to provide a mixed population (MP) comprising UC, subjecting MP to a cell size-discrimination (SP) step, and simultaneously or sequentially with SD, subjecting the cell population obtained to a cell-surface marker-discrimination step. Also described: (1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Generating substantially homogeneous population of undifferentiated cells from sample, by disrupting tissue sample, discriminating cells in population based on size and performing cell-surface marker-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               neuroprotective, antiparkinsonian; gene therapy, nervous system; central nervous system; CNS; Alzheimer's disease; acute brain injury; CNS dysfunction; tissue regeneration; tissue repair;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              stem cell; NSC; undifferentiated; nootropic;
                                                                                                                                                                                                                                                                                             Sequence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.8; DB 1;
88.2%; Pred. No. 8.6e+02;
1ve 0; Mismatches 2;
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Example 48; Col 45; 53pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                 1631 CCAGCAGGCAGCGCTG 1647
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Synthetic.
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Best Local
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prepared by (M); (2) a composition (II) for use in cell replacement therapy, comprising a population of substantially homogeneous population of neural stem cells (NSC9) generated by (M); and (3) a composition (III) comprising a growth factor identified using a homogeneous population (III) comprising a growth factor identified using a homogeneous population of NSC9 generated by (M). (I) can have nootropic, neuroprotective and antiparkinsonian activities, and can be used in gene therapy. (M) is useful for generating a substantially homogeneous population of undifferentiated cells such as NSC9 from a biological sample, and is useful for the replacement of neural or non-neural tissue in a naimal. (II) is useful in cell replacement therapy in an organ such as the brain or in the nervous system, preferably central nervous system (CNS), for treating a CNS disorder such as Alzheimer's disease, Parkinson's disease, centred brain injury and CNS dysfunction. (I) is useful for the repair or regeneration of tissue. Abz80278 to Abz80363 represent PCR primers which are used in an example from the present invention for markers defining
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Pred. No. 8.6e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                           Sequence 20 BP; 1 A; 10 C; 1 G; 8 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                            919 TICCIGITCCAGCIGCT 935
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                                                                                                                                                                                                                                                             cell populations
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ABX33976
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Gaps

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Length 20; 2; Indels Disclosure; Page 32; 42pp; English.

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18-FEB-2000; 2000US-00506073
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                                             ACD42154;
                                                                           28-AUG
                               Matches
                                         ACD42154,
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New antisense chimeric oligonucleotide, useful for modulating the expression of human Interleukin 12 p40 subunit, in treating or preventing disease states in humans and animals, and as research reagents and Example 15; Col 45; 42pp; English. diagnostics

The invention relates to an antisense compound 20-50 nucleobases in length targeted to a start codon region, coding region, a stop codon region of a nucleic acid molecule encoding human interleukin 12 p40 subunit. The compound specifically hybridises with one of the regions and inhibits the expression of human Interleukin 12 p40 subunit. The new compound is useful for inhibiting the expression of human Interleukin 12 p40 subunit in cells or tissues and comprises contacting the cells or tissues in vitro with the compound, so that antisense compound may also be used as research reagents and diagnostics, and as treatment or prevention of disease states, e.g. to prevent or delay infection, inflammation or tumour formation, in animals and humans. The present sequence is an antisense oligonucleotide of the invention

Sequence 20 BP; 4 A; 9 C; 3 G; 4 T; 0 U; 0 Other;

Gaps ö 0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; 2; Indels Mismatches ,0 15; Conservative Local Similarity Query Match

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ACD42154 standard; DNA; 20

BP.

Human raf-associated antisense oligonucleotide #16. (first entry) 05-SEP-2003

Antisense; c-raf; a-raf; b-raf; protein kinase; cancer; ss; signal transduction; cell proliferation; lung carcinoma; cytostatic; antisense gene therapy; chemotherapeutic agent; angiogenesis; hyperproliferative condition; neovascularisation; ocular angiogenesis.

Unidentified.

US2003032607-A1.

13-FEB-2003

25-JAN-2002; 2002US-00057550. 94US-00250856 31-MAY-1994;

95WO-US007111 96US-00756806. 97US-00888982. 98WO-US013961. 98US-00143214. 31-MAY-1995; 26-NOV-1996; 07-JUL-1997

MONI/) MONIA

Monia BP;

WPI; 2003-503332/47.

Novel antisense oligonucleotide which is targeted to mRNA encoding human raf and which is capable of inhibiting raf expression, useful for treating or preventing hyperproliferative conditions such as cancer.

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The invention relates to an oligonucleotide 8-50 nucleotides in length which is targeted to mRNA encoding human c-raf, a-raf or b-raf (raf is a protein kinase playing a regulatory role in signal transduction, regulating cell proliferation and has been implicated in lung carcinoma), and which is capable of inhibiting raf expression. Also included is a composition comprising the oligonucleotide and a pharmaceutically a composition comprising the oligonucleotide and a pharmaceutically composition comprising the expression of human raf in human cells or tissues, by inhibiting the expression of human raf in human cells or tissues, by contacting the human cells or tissues with the oligo. The oligo. Is also is useful for treating or preventing a disease or condition associated with the expression of raf by administering it in combination with a checkherapeutic agent to a human or cells of the human, where the expression of raf is abnormal expression, and the condition is a hyperproliferative condition and as cancer, angiogenesis or neovascularisation. The oligo. is also useful for inhibiting hyperproliferation of cells. The oligos are also useful as tools, for example for detecting and determining the role of raf expression in hyperproliferation of cells. The oligos are also useful as tools, for example for detecting and determining the role of raf expression in carposes. The present sequence is an antisense oligonucleotide included in the sequence listing but not mentioned elsewhere in the specification
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18.2%; Pred. No. 8.6e+02;
ve 0; Mismatches 2; Indels
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(USSH ) US DEPT HEALTH & HUMAN SERVICES.
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es 15; Conservative
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This invention describes a novel human ABCC12 (adenosine triphosphate (ATP) binding cassette transporter gene subfamily C12, i.e. cystic fibrosis transmembrane conductance regulator/multidung resistance-like subgroup (CFTR/MEP) family) polypeptide and its encoding polymucleotides The polypeptide is useful for screening agonists and antagonist of the ABCC12 polypeptide. The products of the invention are useful for screening an active ingredient for preventing and treating paroxysmal screening an active ingredient for preventing and treating paroxysmal kinesper of organic anion transporters such as cystemyl leukotriene, anionic drugs, such as methotrexte, neutral drugs conjugated to acidic ligands, such as glucathione, glucuromate or suphate conjugated drugs and can be used for somatic gene therapy. This sequence represents a region corresponding to an exon/intron boundary from the gene encoding a human ABCC12 isoform described in the disclosure of the invention
                                                                                                                    Disclosure; Page 44; 122pp; English
chorecathetosis
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Length 20; Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 U; 0 Other; 0.8%; Score 13.8; DB 1; 18.2%; Pred. No. 8.6e+02; 1ve 0; Mismatches 2; 88.2%; 15; Conservative Query Match Local

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Gaps

. 0

2; Indels

865 AAGCAGTACCTGGATGA 881 ო 19 AGGCATTACCTGGATGA

d

à

Matches

RESULT 1120

ABX74975 standard; DNA; 20 ABX74975

BP

ABX74975;

(first entry) 25-MAR-2003

Human gene 216 polymorphism detection PCR primer #32.

Human, mouse, 88; primer, gene 216; antiasthmatic, antiinflammatory, anorectic, chromosome 20p13-p12; single nucleotide polymorphism; SNP; gene therapy, respiratory disease; asthma; obesity; PCR; bronchial hyper-responsiveness; chronic obstructive pulmonary disease; adult respiratory distress syndrome; inflammatory bowel syndrome.

Homo sapiens

WO200283077-A2.

24-OCT-2002.

15-AFR-2002; 2002WO-US012063

13-APR-2001; 2001US-00834597.

SCHERING CORP

GENOME THERAPEUTICS CORP (SCHE )

Del Mastro RG; Dupuis J, Little RD, Van Berdewegh P, Allen K, Pandit S; Keith T, Simon J,

WPI; 2003-092960/08

ö New isolated gene 216 nucleic acids, useful for diagnosing, preventing treating a disorder, such as asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary disease, obesity or inflammatory bowel

New isolated gene 216 nucleic acids, useful for diagnosing, preventing or treating a disorder, such as asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary disease, obesity or inflammatory bowel

This invention relates to a novel isolated nucleic acid, gene 216, identified from human chromosome 20p13-p12. The invention also discloses regions of the 216 gene that contain single nucleotide polymorphisms

Example 10; Page 155; 650pp; English.

syndrome.

Example 10; Page 155; 650pp; English.

This invention relates to a novel isolated nucleic acid, gene 216,

identified from human chromosome 20p13-p12. The invention also discloses regions of the 216 gene that contain single nucleotide polymorphisms (SNP's) which may be used as markers for disease susceptibility or severity. The nucleotides of the invention may have antiasthmatic, antinflammatory or anoxectic activities and may be used in gene therapy. The nucleotides of its fragments are useful for diagnosing, preventing or treating a disorder, such as respiratory diseases (e.g. asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary disease or adult respiratory distress syndrome), obeaity, or inflammatory bowel syndrome. The nucleic acids are also useful for identifying increased susceptibility of a subject to the disorders mentioned. The nucleic acids are also useful for identifying increased susceptibility of a subject to the disorders mentioned. The recombinant production of disorder-associated peptides or polypeptides, for chromosome and gene mapping, or for tissue distribution studies. The present sequence represents a gene 216 specific PCR primer used in the ö Human, mouse, 88; primer; gene 216; antiasthmatic; antiinflammatory; anorectic; chromosome 20p13-p12; single nucleotide polymorphism; SNP; gene therapy; respiratory disease; asthma; obesity; PCR; bronchial hyper-responsiveness; chronic obstructive pulmonary disease; adult respiratory distress syndrome; inflammatory bowel syndrome. Gaps Del Mastro RG; ô DB 1; Length 20; 2; Indels Human gene 216 polymorphism detection PCR primer #92. Little RD, Van Eerdewegh P, Dupuis J, Allen K, Pandit S; Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other; Score 13.8; DB 1; Pred. No. 8.6e+02; 0; Mismatches 2 (SCHE ) SCHERING CORP. (GENO-) GENOME THERAPEUTICS CORP. 0 538 CCCATCTTTGACAAGCC 554 cccrrcrcrcrchachaccc 18 ABX75035 standard; DNA; 20 BP. 0.8%; 15-APR-2002; 2002WO-US012063. 13-APR-2001; 2001US-00834597, 13-APR-2001; 2001WO-US012245. 25-MAR-2003 (first entry) Local Similarity 88.2 Les 15, Conservative scope of the invention WPI; 2003-092960/08. WO200283077-A2 Homo sapiens. 24-OCT-2002. Keith T, Simon J, Query Match ABX75035; RESULT 1121 Matches à 셤 

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(SNP's) which may be used as markers for disease susceptibility or antinflammatory. The nucleotides of the invention may have antiasthmatic, antinflammatory or anorectic activities and may be used in gene therapy. The nucleic acids, antibodies or its fragments are useful for diagnosing, preventing or treating a disorder, such as respiratory diseases (e.g. preventing or treating a disorder, such as respiratory diseases (e.g. disease or adult respiratory distress syndrome), obesity, or inflammatory bowel syndrome. The nucleic acids are also useful for identifying increased susceptibility of a subject to the disorders mentioned. The nucleic acids can also be used as primers and templates for the recombinant production of disorder-associated peptides or polypeptides, for chromosome and gene mapping, or for tissue distribution studies. The present sequence represents a gene 216 specific PCR primer used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                             scope of the invention
      85999999999995888
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Score 13.8; DB 1; Length 20; Pred. No. 8.6e+02; 0; Mismatches 2; Indels 0.8%;

554 Query Match
Best Local Similarity 88 ...,
Conservative 538 CCCATCTTTGACAAGCC ò

19 ccerrergradeadcc

AAD55476 standard; DNA; 20 RESULT 11 

gë

(first entry) 07-AUG-2003 AAD55476;

Human FGFR-3 antisense oligonucleotide, ISIS #125180.

Human, antisense, fibroblast growth factor receptor 3; prophylaxis; developmental disorder; hyperproliferative disorder, antisense therapy; FGFR-3; ACH; UTK4; CEK2; cancer; phosphorothioate; ss.

Homo sapiens Synthetic Location/Qualifiers ď 1. .20 /\*tag= Key modified\_base

/mod\_base= OTHER /note= "Phosphorothioate backbone; All cytidine residues are 5-methylcytidines"

\*tag= b modified\_base

/mod\_base= OTHER /note= "2'-methoxyethyl (2'-MOE) 16. .20 /mod\_base= OTHER /note= "2 -methox υ \*tag= modified base

nucleotides"

-methoxyethyl (2'-MOE) nucleotides"

WO2003023004-A2

20-MAR-2003

06-SEP-2002; 2002WO-US028549

(ISIS-) ISIS PHARM INC

Monia BP, Wyatt JR;

growth factor receptor 3, useful for inhibiting the expression of receptor and for treating an animal having cancer or developmental disorder.

Example 15; Page 79; 120pp; English.

The invention relates to antisense compounds targetted to a nucleic acid molecule encoding fibroblast growth factor (FGF) receptor 3 (also known ser PGFR-3, ACH, JUX4 and CEK2) to inhibit its expression. Antisense compounds of the invention are useful for treating diseases or conditions associated with FGFR-3 such as developmental disorders or byperporiserative disorders, especially cancer of colorectal, bladder, bone, lung, cervical, breast or skin. They are useful as research reagents, therapeutice, prophylaxis, kits and diagnostics, and as tools in differential and/or combinatorial analyses to elucidate expression patterns of a portion of the genes expressed within cells and tissues. They are also useful in antisense therapy. The present sequence is an antisense oligonucleotide targetted to human FGFR-3 

Sequence 20 BP; 4 A; 8 C; 7 G; 1 T; 0 U; 0 Other;

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Gaps .; 0

Gaps ö 0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; 2; Indels 0; Mismatches Local Similarity 88.2 les 15; Conservative Query Match Matches

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977 GAGACCTCAAGCCCCAG 993 2 GAGACCCCAAGCCCCTG

ઠે 셤 RESULT 1123 ACF57208/c

'208/c ACF57208 standard; DNA; 20 

ACF57208;

16-OCT-2003

Human LAMA3 reverse PCR primer SEQ ID NO:8.

Human, mouse, skin structure, skin, laminin 5 chain gene, LAVA3; LAMB3, LAMC2; extracellular matrix component, matrix metalloproteinase, MMP-1, MMP-2; MMP-3; MMP-9; TIMP-1, TIMP-2; TIMP-3; collagen, PCR primer; ss.

Homo sapiens

Synthetic.

JP2002330792-A.

19-NOV-2002

15-JAN-2002; 2002JP-00006797

15-JAN-2001; 2001JP-0006952.

(SHIS ) SHISEIDO CO LTD

WPI; 2003-407328/39.

Claim 1; Page 2; 34pp; Japanese.

A method and a kit for determination of expression of mRNA or cDNA of protein participating in the maintenance of skin structure.

The present invention describes a method and a kit for determining the expression of mRNA or cDNA of a protein participating in the maintenance of skin structure. The method is quantitative, simple and accurate in the determination of extracellular matrix components of laminin 5 chain genes LAMA3, LAMB3 and LAMC2, matrix metalloproteinases MAP-1, MAP-2, MAP-3 and MAP-9, VII collagen, type I collagen alpha 1 chain, type IV collagen alpha 1 chain, ACF57290 represent PCR primers and probes used in the method of the

10-SEP-2001; 2001US-00953047.

WPI; 2003-313244/30.

Novel compound targeted to a nucleic acid molecule encoding fibroblast

invention

schultz621-3.rng

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RESULT 1125
ACH03337
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present sequence is that of an antisense primer for Fas-associated ACTOS718 generates a 695 by product. Semi-quantitative RT-PCR was used to determine levels of FADD RNA in thyroid trainsgenic mice during various stages of tumour development. These mice provide models of human. Hyroid tumours. FADD expression was shown to decrease, in some cases to zero, during tumour development. It therefore provides a marker for the absence of in vivo tumour. FADD proteins are secreted from tumour cells. A low cellular amount and a high extracellular amount of FADD proteins are prognostic of resistance to chemotherapy. The invention provides methods for determining a status of tumour to chemotherapy on the basis of prognosis.
                                                                                                                                                                                                                                                             FADD; mouse; tumour; marker; diagnosis; prognosis; thyroid; PCR; primer;
                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Use of Fas associated protein with dead domain, and cellular phosphorylated p38-mitogen activated protein kinases as a biological indicator of tumor status.
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                                           Score 13.8; DB 1; Length 20;
Pred. No. 8.6e+02;
0; Mismatches .2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
iive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tourneur L, Feunteun J, Michiels F,
                       Sequence 20 BP; 9 A; 7 C; 4 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 7 A; 7 C; 4 G; 2 T; 0 U; 0 Other;
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                                                                                        1113 TGACATCCTGCTTGGGT 1129
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                                           0.8%;
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22-OCT-2002; 2002EP-00292619.
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                                                                                                                                                                    ACF05737 standard; DNA; 20
                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                       FADD antisense PCR primer
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Best Local Similarity 88.2
Matches 15; Conservative
                                         Query Match
Best Local Similarity 88.2
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            these findings
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chiocchia G,
                                                                                                                                                                                                                 06-NOV-2003
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                                                                                                                                                                                           ACF05737;
                                                                                                                                                RESULT 1124
ACF05737
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The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory diseases, such as psortasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or frohn's disease. This sequence represents an immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                             Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Treating non-allergic inflammatory diseases, such as psoriasis, ecze allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.8%; Score 13.8; DB 1; Length 20;
llarity 88.2%; Pred. No. 8.6e+02;
Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                               Immunostimulatory nucleic acid #972.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 35; 229pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Immunostimulatory nucleic acid #929.
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  BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-MAR-2001; 2001US-0279642P
ACH03337 standard; DNA; 20
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                                                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Berg DJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 15; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (KRIE/) KRIEG A M. (BERG/) BERG D J.
                                                                                                                                                                                                                                                                                                                                                                                                       JS2003050268-A1.
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                                                                                                         25-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                   Synthetic.
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                                                      ACH03337;
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Gaps ; 0

1656 CCACACCCCTCACAGGG 1672

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ccacagrecreacages 20

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The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represents an immunostimulatory nucleic acid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "Phosphorothioate backbone and all cytosines are methyl cytosines"
                                                                                                                                                                                                                                     Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antinsense oligonucleotide targeting mouse C3 component, ISIS140104.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              septic shock; multiple organ failure; hyperacute organ failure;
autoimmune disorder; CNS inflammation; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mouse; ss; antisense; complement component C3; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                         ch. 0.8%; Score 13.8; DB 1; Length 20; Similarity 88.2%; Pred. No. 8.6e+02; 15; Conservative 0; Mismatches 2; Indels
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/*rag= a
/mod_base= OTHER
/note= "2'-methoxyethyl nucleotides"
16..20
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/note= "2'-methoxyethyl nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                             Disclosure; Page 19; 221pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1547 GCCTTCGGTCTTCGTCG 1563
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                                                                          02-FEB-2001; 2001US-00776479
                                                                                                     03-FEB-2000; 2000US-0179991P
                                                                                                                                                                                   Bratzler RL, Petersen DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADB90016 standard; DNA; 20
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                                                                                                                              BRATZLER R L.
PETERSEN D M.
                                                                                                                                                                                                             WPI; 2003-657977/62.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                         FOURON Y.
                       US2003087848-A1
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modified_base
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                                                  08-MAY-2003
Synthetic
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(PETE/) I
(FOUR/) I
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Matches
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The invention relates to a compound 8-50 nucleobases in length targeted to a nucleic acid molecule encoding complement component C3. The compound specifically hybridises with the nucleic acid molecule encoding component C3 or specifically hybridises with at least an 8-nucleobase component C3. Also included are a composition of complement component C3. Also included are a composition comprising the compound and a practice or alluent, inhibiting the expression of complement component C3 in cells or tissues (comprising contacting the component C3 or parties or alluent, inhibiting the expression of complement component C3 in cells or tissues (component C3 comprising contacting the component C3 comprising administering to the animal the component C3 component C3 in cells or tissues, or for treating an animal component C3 component C3 in cells or tissues, or for treating an animal having a component C3 in cells or tissues, or for treating an animal having a disease or condition associated with complement component C3 such as an utoimmune disorder (e.g. multiple sclerosis), an infection, or autoimmune disorder (e.g. multiple sclerosis), an infection, or alternation associated with complement component C3 cuch as an eather or component C6. The compound are also cuseful as research reagents and diagnostics, multiple organ failure, hyperacute organ failure and CNS inflammation. The compounds are also cuseful as research reagents and diagnostics, in distinguishing functions antisance of various members of a biological pathway, or for preventing or delaying an animal and consultance of an animal consultance of an animal consultance or an inflammation or tumour formation. The present sequence is an animal consultance or an animal consultance or an early an animal consultance or an early and animal consultance or an early and animal consultance or an early and animal component component can be consultanced by the component can be component can be consultanced by the component can be component can be consultanced by the compo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antisense; ss; human; eukaryotic translation initiation factor 2C 1; EIF2C1; Co-eIF2C; Golgi ER protein 95kDa; GER995; Q99; gene therapy; hyperpoliferative disorder; familial hypercholesterolaemia; cancer; polycystic kidney disease; cystic fibrosis; progeriod syndrome; cytostatic; antilipaemic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                         New antisense oligonucleotides targeted to a nucleic acid molecule encoding complement component C3, useful for treating a disease or condition associated with complement component C3, e.g. autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ő
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense oligo (SegID 29) used to inhibit human EIF2C1 DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match 0.8%; Score 13.8; DB 1; Length 20; Best Local Similarity 88.2%; Pred. No. 8.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antisense oligonucleotide targeting mouse C3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 16; Page 27; 72pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
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                                                                                                 23-OCT-2001; 2001US-00001076.
                                                                                                                                                  23-OCT-2001; 2001US-00001076.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             391 TCGGATGAGGTGCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADB81512 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20 rcadardaddrecaddc
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                                                                                                                                                                                                                                                                                                                                                                                                                                     disorder or infection.
                                                                                                                                                                                                   (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                           WPI; 2003-606441/57.
US2003096775-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15;
                                                22-MAY-2003
                                                                                                                                                                                                                                                    Graham MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADB81512;
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(BECE/)
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                   This invention relates to novel antisense oligonucleotides that modulate the expression of human eukaryotic translation initiation factor 2C 1 (EIF2C1). EIF2C1 is located on chromosome 1934-35, and is also known as Co-eIF2C, eIF2C, Golgi ER protein 95kDa, GER95 and 699. It is an intracellular membrane associated protein thought to be involved in cellular differentiation, such that altered expression of EIF2C1 can affect cell growth, morphology and tumourigenicity. Accordingly, antisense oligonucleotides that inhibit the expression of EIF2C1 in cells including hyperproliferative disorders, damilial hypercholesterolaemia and cancer, as well as polycystic kidney disease, cystic fibrosis and progeriod syndrome. As such, the oligos of the present invention can be described as having cytostatic and antilipaemic activities. This coligonucleotide sequence is an antisense oligo used to inhibit expression coligonucleotide sequence is an antisense oligo used to inhibit expression colification enterpression initiation factor 2C 1 (EIF2C1) DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ô
                                                                                                                                                                                                                                                                                                           New compound, having a sequence targeted to a nucleic acid encoding human collapsin response mediator protein 2, useful for preparing a composition for treating hypercholesterolemia or hyperproliferative disorder, e.g.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human, ss; PCR; retinal pigment epithelial-derived neurotrophic factor; PEDF; tumour; ocular disease; neuronal cell pathology; serine protease; blood coagulation; thrombosis; bacterial infection; parasitic infection; elastosis; vascular disorder; fibrinoid formation; coagulation disorder; arteriosclerosis; ischaemia; arthroses diabetes; emphysema; arthritis;
                                              /mod_base= OTHER //notes = "OTHER = phosphorothioate backbone, where 1-5 and 16-20 are 2' methoxyethyl nucleotides. All cytidines are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human retinal pigment epithelial-derived factor (PEDF) PCR primer #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Match 0.8%; Score 13.8; DB 1; Length 20; Local Similarity 88.2%; Pred. No. 8.6e+02; es 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 3 A; 8 C; 2 G; 7 T; 0 U; 0 Other;
              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                Claim 3; Page 76; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          568 CTCCGTCGTGTCAGCCT 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 CTCGTCATGTCATCT 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADB99096 standard; DNA; 20 BP
                                                                                                                                                                           04-NOV-2002; 2002WO-US035324
                                                                                                                                                                                                  08-NOV-2001; 2001US-00007078
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                                                                                                                                                                                                                               (ISIS-) ISIS PHARM INC
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                                                                                                                                                                                                                                                            Ward DT, Watt AT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of the human eukar
of the invention.
                                                                                                                       WO2003040321~A2
               Key
modified_base
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Best Local 8
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ADB99096
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AC ADB990909
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Human r
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KW Human;
KW PEDF;
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KW PEDF;
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The invention relates to a composition comprising purified retinal comprisions respirate and exived neurotrophic factor (PEDF). The PEDF proteins comprise ADB99089, ADB99080 are equivalent to but not identical to ADB99089. Human PEDF is encoded by ADB99088 Also included are purifying PEDF, producing PEDF comprising expressing the DNA sequence concoding the PEDF in a host cell, a recombinant DNA molecule comprising a certor comprising a PEDF nucleic acid molecule, an organism transformed vector comprising a PEDF nucleic acid molecule, an organism transformed to vector comprising a PEDF nucleic acid molecule, an organism transformed vector comprising the vector, a recombinant DNA molecule comprising a retinal PEDF CDNA, a host coll containing the vector, a recombinantly produced PEDF protein soluted or purified from a naturally occurring source organism and a purified human comprision and activation of promises in the protein soluted the protein of promises, i.e. retinal tumour, collar disease, neuronal cell pathologies, or conditions resulting from the activity of serine proteases, e.g. excessive or unwanted blood coagulation, thrombosis, bacterial infection, parasitic infection, alastosis, vacentical adisorders involving fibrinoid formation, coagulation disorders, arteriosclerosis, ischemmia, arthrices complement activation, ulcers, ulcerative colitis, pancreatitis, fibrinolytic disease, arthropathy, bone resorption, proteases, The present sequence is a PCR primer used to isolate genomic DNA encoding human retinal pigmented epithelium derived neurotrophic factor (PEDF).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New purified retinal pigmented epithelium derived neurotrophic factor composition, useful for treating tumors, i.e. retinal tumor, ocular disease, neuronal cell pathologies, coagulation disorders or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
septic shock; lung disease; complement activation; ulcer; ulcerative colitis; pancreatitis; psoriasis; fibrinolytic disease; arthropathy; bone resorption; hypertension; congestive heart failure; cirrhosis; protease allergy; chromosome 17p13.1-pter; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tombran-Tink J, Steele FR, Chader GJ, Becerra SP, Johnson LV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ô
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 48; SEQ ID NO 9; 58pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1631 CCAGCAGGCAGCGGCTG 1647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     92US-00894215.
92US-00952796.
95US-00520373.
                                                                                                                                                                                                                                                                                                                                                                                                                                09-AUG-2002; 2002US-00216373
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (TOMB/) TOMBRAN-TINK J. (STEE/) STEELE F R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (JOHN/) JOHNSON L V.
(RODR/) RODRIGUEZ I R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STEELE F R. CHADER G J. BECERRA S P. JOHNSON L V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-743982/70.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   arteriosclerosis
                                                                                                                                                                                                                                                                             US2003096750-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-JUN-1992;
24-SEP-1992;
29-AUG-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rodriguez IR;
                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                      22-MAY-2003
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The invention comprises antisense oligonucleotides that are targeted to the nucleic acid encoding transforming growth factor beta (TGF-beta) receptor II. The antisense oligonucleotides of the invention are useful for treating: hyperproliferative disorders (e.g. breast cancer), or an autoimmune disorder (e.g. rheumatoid arthritis). The present DNA sequence represents a 2'-O-methoxyethyl gapmer oligonucleotide with a phosphorothioate backbone that is targeted to human TGF-beta receptor II.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New compound having a sequence targeted to a nucleic acid encoding Transforming growth factor beta-receptor II, useful for preparing a composition for treating hyperproliferative disorder e.g., lung, liver, colon or gastric cancer.
                                                                                                                                                            human; antisense oligonuclectide;
transforming growth factor beta receptor II; TGF-beta receptor II;
typerproliferative disorder; breast cancer; autoimmune disorder;
rheumatoid arthritis; 2.0-methoxyethyl gapmer;
phosphorothioate backbone; ss.
                                                                                                                              Human TGF-beta receptor II targeted antisense oligonucleotide #52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lolium perenne; Festuca arundinacea; lignin; fructan; tannin;
biosynthetic pathway; plant; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 9.6e+02; ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tannin biosynthesis gene related PCR primer SEQ ID NO:217.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 8 A; 4 C; 7 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 15; SEQ ID NO 71; 141pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1202 CCCTCTTTCCGGGCTCC 1218
                   775/c
ADC65775 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                              19-JUN-2002; 2002WO-US019665
                                                                                                                                                                                                                                                                                                                                                                                                21-JUN-2001; 2001US-00888361
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                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                 (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Murray SF, Wyatt JR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-175279/17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                               WO2003000656-A2
                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                             18-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-DEC-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADC68507;
                                                             ADC65775;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
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RESULT 1130
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                                               SXXXXXXXXXXX
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proteins (II) from Lollum perenne and Feetuca arundinacea which are active in lignin, fructan and tannin biosynthetic pathways. Also described (1) an isolated oligonucleotide probe or primer comprising at least 10 contiguous residues complementary to 10 contiguous residues of (1); (2) a kit comprising the oligonucleotide probe or primer; (3) a genetic construct comprising (1); (4) a transgenic plant cell comprising the genetic construct of (3); (5) a plant or its seed, fruit or progeny comprising the transgenic plant cell of (4); (6) modulating one or more of the lignin, fructan or tannin compositions; and (8) modifying the activity of (II) involved in a lignin, fructan or tannin compositions; tannin blosynthetic pathway in a plant. (1) can be used for modulating sequence is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New polynucleotide encoding polypeptides from Lolium perenne or Festuca arundinacea, useful for modulating the biosynthesis of lignin, fructan or tannin in a plant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCR; Primer; 88; yeast; omega oxygenase complex; orytochrome PSG monoxygenase; CPP, NappH reductase enzymes; CPR; CPRA; CPRS, 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes isolated polynucleotides (I) encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                       Glenn
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88.2%; Pred. No. 8.6e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                       Norriss MG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Yeast CYP52A5A/B genes 5' region RT-PCR primer #1.
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                                                                                                                                                                                                                                                                                                                                                                                                                       Shenk MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 8; SEQ ID NO 217; 240pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                       Gibson JB,
                                                                                                                                                                                                                                                                                                                             (GENE-) GENESIS RES & DEV CORP LTD (WRIG-) WRIGHTSON SEEDS LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          851 TGGACAAGGACCTGAAG 867
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Best Local Similarity 88.2
Matches 15; Conservative
Lolium perenne.
Schedonorus arundinaceus.
                                                                                                                                                                                                                                                                                                                                                                                                                    Forster RL, CM, Hall C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-441544/41.
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                                                                                         WO2003040306-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                       Demmer J, For
Saulsbury KM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-DEC-2003
                                                                                                                                                15-MAY-2003
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Gaps

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The invention relates to an isolated mucleic acid selected encoding candida tropicalis omega oxygenase complex enzymes (Cytochrome P450 monooxygenase (CYPS ) and MADPH reductase enzymes (CyPS ) designated CPRA, CPPS2A3A, CYPS2A3A, CYPS2A3B, CYPS2A3A, CYPS2A3B, CYPS2A3A, CYPS2A3B, CYPS2A3A, CYPS2A3B, CYPS2AB, C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid encoding cytochrome P450 and NADPH reductase enzymes (e.g. CPRA, CPRB or CYP52A1A), useful for producing dicarboxylic acids that may be utilized as industrial intermediates in manufacturing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 11; SEQ ID NO 47; 196pp; English
                                                                                                                                 01-MAY-1998; 98US-0083798P.
05-OCT-1998; 98US-0103099P.
10-MAK-1999; 99US-0125555P.
30-APK-1999; 99US-00302620.
12-OCT-2001; 2001US-00976800.
                                                                               03-MAY-2002; 2002US-00138838.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (e.g. CPRA, CPRB or CYI
that may be utilized a
diesters and polymers.
                                                                                                                                                                                                                                                                                                (WILS/) WILSON C R.
(CRAFT D L.
(ERRI/) ETRICH L D.
(ESHO/) ESHOO M.
(MADD) MADDURI K M.
(CORN/) CONNETT C A.
(BREN/) BRENNER A A.
(TAMG) TAMG M.
(LOPE), LOPER J C.
(GLEE/) GLEBEN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-777150/73.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Brenner AA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          substrates.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Wilson CR.
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Cornett CA;

Madduri KM,

Eirich LD, Eshoo M, Loper JC, Gleeson M;

Loper JC,

Craft DL, , Tang M, I

ö Gaps . 0 Query Match 0.8%; Score 13.8; DB 1; Length 20; Best Local Similarity 88.2%; Pred. No. 8.6e+02; Matches 15; Conservative 0; Mismatches 2; Indels Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other; ð

1010 AGAGGGGAGAGCTCAAG 1026 

RESULT 1133 ADC45616

ADC45616 standard; DNA; 20

ADC45616;

(first entry) 18-DEC-2003 

cytochrome P450 monoxygense; CYP; NADPH reductase enzymes; CPR; CPRA; CPRB; CYP52A1A; CYP52A2A; CYP52A2B; CYP52A3A; CYP52A3B; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A5B; CYP52A6B; CYP52D4A; dicabboxylic acid; diseter; polymer; thermoplastic; plasticising agent; lubricant; hydraulic fluid; agricultural chemical; plantaceutical; dye; surfactant; adhesive; QC-RT-PCR; quantitative competitive reverse transcription PCR. feast CYP52A5A/B genes 5' region RT-PCR primer #1 complex; Primer; ss; yeast; omega oxygenase 01-MAY-1998; 98US-0083798P. 05-OCT-1998; 98US-0103099P. 10-MAR-1999; 99US-0123555P. 30-APR-1999; 99US-00302620. 12-OCT-2001; 2001US-00976800. 03-MAY-2002; 2002US-00139031 CRAFT D L.
BIRICH L D.
BERNO M.
MADDURIT K M.
CORNETT C A.
BRENNER A A.
TANG M.
LOPER J C.
GLEESON M. WILSON C R. Candida tropicalis. US2003049822-A1. 13-MAR-2003 (CRAF/)
(EIRI/)
(ESHO/)
(MADD/) R
(CORN/)
(BREN/)
(TANG/)
(LOPE/)
(GLEE/) (MILS/) 

Cornett CA; Madduri KM, Eirich LD, Eshoo M, Loper JC, Gleeson M; Craft DL, Tang M, Brenner AA, Wilson CR

WPI; 2003-765370/72.

New nucleic acid encoding cytochrome P450 and NADPH reductase enzymes (e.g. CPRA, CPRB or CYP52ALA), useful for producing dicarboxylic acids that may be utilized as industrial intermediates in manufacturing diesters and polymers.

Example 11; SEQ ID NO 47; 196pp; English

The invention relates to an isolated mucleic acid selected encoding candida tropicalis omega oxygenase complex enzymes (Cytcohrome P450 monooxygenase (CYPS and NADPH reductase enzymes (CPR) designated CPRA, checkers, CYPS2A18, CYPS2A28, CYPS2A28, CYPS2A38, CYPSA33, UNCAPA318, CYPSA33, UNCAPA318, CYPSA33, CYPSA333, CYPSA3333, CYPSA3333, CYPSA3333, CYPSA3333, CYPSA3333, CYPSA3333, CYPSA3333, CYPSA3333, CYPSA3333, CYPSA3333,

Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;

ô Gaps ô 0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; ative 0; Mismatches 2; Indels Best Local Similarity 88.2 Matches 15, Conservative Query Match

88.2%;

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The invention relates to a compound (antisense oligomucleotide) hybridising with the eighth nucleobase portion of an active site on a nucleic acid molecule encoding CDB1 (also known as TARA-1, a tetraspania) and inhibiting the expression of CDB1. Also included is a composition comprising the antisense oligomucleotide and a carrier or a diluent. The antisense oligomucleotide is useful for inhibiting the expression of CDB1 in cells or tissues. The antisense oligomucleotide is useful for inhibiting the sxpression of CDB1 treating infections preferably viral, bacterial and parasitic and disease or condition is characterised by chemical dependency (e.g. cocaine addiction). The present sequence is a CDB1 antisense oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "mod_base= OTHER
note= "Phosphorothioate backbone and all cytidines are 5
"methyl cytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel compound hybridizing with nucleic acid molecule encoding CD81 and inhibiting the expression of CD81, useful for treating infections and disease associated with expression of CD81 such as inflammation disorder.
                                                                                                                                                                                                                                                                                Antisense, ss; human; CD81; TAPA-1; tetraspanin; viral infection; cocaine addiction; autolmmune disorder; antiinflammatory; antibacterial; virucide; antiparasitic; inflammatory disorder; parasitic infection; bacterial infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /mod_base= ОТНЕR
/note= "2'-methoxyethyl nucleotide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ...5
/*tag= OTHER
/mod_base= OTHER
/mod= "2'-methoxyethyl nucleotide'
16..20
/*tag= c
                                                                                                                                                                                                                                                   Human CD81/TAPA-1 antisense oligonucleotide #60.
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1. .20
/*tag= b
1010 AGAGGGGAGAGCTCAAG 1026
                                     AGAGGCAGGCTCAAG 18
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ADC35600 standard; DNA; 20
                                                                                                                                                                                                              18-DEC-2003 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-810907/76.
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modified_base
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                                                                                                                                                                         ADC35600;
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                                                                                                                 ADC35600
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1677 CCCCAACTACATCTTCC 1693 19 3 cceraacracarcrice ADC84235 standard; DNA; 20 01-JAN-2004 (first entry) ADC84235; 셤

Sequence 20 BP; 6 A; 4 C; 8 G; 2 T; 0 U; 0 Other;

DB 1;

0.8%; Score 13.8;

Query Match

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention comprises oligonuclectides for detecting and identifying subtypes of human papilloma virus (HPV) contained in a sample. The oligonuclectides of the invention are useful for simultaneously detecting and identifying subtypes of HPVs. The present DNA sequence represents an HPV detection oligonuclectide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Detector for identifying human papilloma virus subtypes, comprises carrier having two parts carrying first and second oligonucleotides that respectively hybridize with DNA contained in first and second subtypes of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           88
                                                                                                                                                                                                                           Human papillomavirus type 6 (HPV 6) detection oligonucleotide #2.
                                                                                                                                                                                                                                                     probe; human papilloma virus; HPV; detection; identification; ss
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         probe; human papilloma virus; HPV; detection; identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
rative 0; Mismatches 2; Indels
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Pred. No. 8.6e+02;
0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      н, <sub>С</sub>,
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chan
                                                                                                                                                                                                                                                                                                                                                                                                                                                      You C, Huang H, Lee B,
Yeh C, Kao Y, Pan C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 4; SEQ ID NO 466; 221pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                           (KING-) KING CAR FOOD IND CO LTD
                                                                                                                                            ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                  10-OCT-2001; 2001EP-00123379.
                                                                                                                                                                                                                                                                                                                                                                       10-OCT-2001; 2001EP-00123379.
                                                                                                                                                                                                                                                                                 Human papillomavirus type 6.
                                            1700 ACTCTCTGCCTACCTGC
                                                                                                                                            ADC84236 standard; DNA; 20
                                                             17 Acrererecerrearec
                                                                                                                                                                                                   entry)
  Best Local Similarity 88.23
Matches 15; Conservative
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Matches 15; Conservative
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                                                                                                                                                                                                  (first
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Shih C,
                                                                                                                                                                                                                                                                                                                 EP1302550-A1.
                                                                                                                                                                                                   01-JAN-2004
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                                                                                                                                                                       ADC84236;
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Hsu H,
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Human papillomavirus type

EP1302550-A1

16-APR-2003

schultz621-3.rng

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The invention comprises oligonucleotides for detecting and identifying subtypes of human papilloma virus (HPV) contained in a sample. The oligonucleotides of the invention are useful for simultaneously detecting and identifying subtypes of HPVs. The present DNA sequence represents an HPV detection oligonucleotide of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Detector for identifying human papilloma virus subtypes, comprises carrier having two parts carrying first and second oligonucleotides tha respectively hybridize with DNA contained in first and second subtypes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Angiogenesis inhibitor-related PCR primer RBv8-WR2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 4; SEQ ID NO 465; 221pp; English.
                                                                                                                                                                                                                                                                                                                        (KING-) KING CAR FOOD IND CO LTD
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                                                                                                                                                                                          10-OCT-2001; 2001EP-00123379.
                                                                                                                                                                                                                                                        10-OCT-2001; 2001EP-00123379.
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Yeh C,
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Shih C,
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Hsu H,
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                                            The invention relates to a novel angiogenesis inhibitor comprising a compound that inhibits the activity of an amino acid sequence given in the specification. Angiogenesis-related process BsNs, ZAQ and ISE were utilised within the method of the invention. The molecules of the invention demonstrate cytostatic and antiinflammatory activities whilst the method may be useful for treatment and prevention of cancer, ovarian diseases, diaberic retinopathy and inflammatory disease. The current sequence is that of the angiogenesis inhibitor-related PCR primer of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Investigating male genetic infertility, useful for diagnosis e.g. for assessing sultabilty for in vitro fertilization, based on multifactorial analysis of infertility-related mutations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention describes a novel method for investigating genetic infertility or predisposition in males. The method involves selecting at lleast two infertility-associated mutations which are recessive or intermediate that are associated with infertility in the heterozygous state and/or only in the homozygous state. Preferably at least one azoospermia factor is detected which may be lost by microdeletions intervals 5 or 6 of the Y-chromosome. Also any of several hundred mutations, listed, present in the cystic fibrosis transmembrane conductance regulator (CTFR), Kallmann syndrome (KAL1), androgen resistance (AR) or steroid 21-hydroxylase (CYP21) genes may be detected.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer; male infertility; infertility-associated mutation; azoospermia factor; Y-chromosome; cystic fibrossis transmembrane conductance regulator; CTFR; Kallmann syndrome; KALl; androgen resistance; steroid 21-hydroxylase; CYP21; microarray; quantitative trait locus; in vitro fertilization;
                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                               0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                               Sequence 20 BP; 3 A; 7 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human infertility associated primer SEQ ID 73.
                  Example 3; SEQ ID NO 35; 308pp; Japanese.
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                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 88.2
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cullen P, Seedorf U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-505402/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (OGHA-) OGHAM GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 oligospermia; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2003050299-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-JUN-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-JAN-2004
                                                                                                                                                                                                            invention.
                                                                                                                                                                                                                                                                                                                                                                                                    19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADD42212;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 1138
ADD42212
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Gaps

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2; Indels

0; Mismatches

cancer, ovarian

Takatsu Y;

that pes of

Fan C;

Lin Y,

Lee H, Chan P;

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Huang H, Lee b,

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probes for the mutated genes and/or native nucleic acid, or their complementary strands, are fixed to a carrier, particularly as a microarray, then tested for hybridization with oligomoulectides from or synthesized from, a patient sample and hybridization detected.

Multifactorial analysis is by standard statistical methods, particularly the quantitative trait loous method. The method is used to diagnose inherited male infertility or predisposition to its, especially in conjunction with in vitro fertilization programs, e.g. for assessing subjects with oligospermia for possible application of the intracytoplasmic sperm injection method. Analysis of many mutations inproves diagnosis of the genetic basis of male infertility, including polygonic origins (complex interactions between different heterozygotic mutations). A chip for analyzing genetic infertility, in males comprises oligonucleotides that represent known mutations (nonsense or missence, insertions, allelic variants deletions or rearrangements) in the cystic fibrosis transmembrane conductance regulator, Kallmann syndrogen resistance and steroid 21-hydroxylase genes. AdD42140-ADD42633 represent of the interestion, the microarray described in the method of the confine. NOTE: these area of SEQ ID's 133, 472 or 473 represented in the confine of the confine of the confidence and steroid 21-hydroxylase genes. SEQ ID list of the specification.

Sequence 20 BP; 6 A; 3 C; 7 G; 4 T; 0 U; 0 Other;

Gaps . 0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; tive 0; Mismatches 2; Indels Query Match
Best Local Similarity 88.2°
Matches 15; Conservative

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GGCAGCCTATGTGAGAT 20 4

RESULT 11 ADE28941/

Reverse Ag2597 RT-PCR primer used to amplify human NOV RNA.

WO2003040330-A2.

15-MAY-2003

05-DEC-2001; 07-DEC-2001;

2001US-0341346P. 2001US-0341477P. 2001US-0341540P.

577 GICAGCCIAICIGAGAI 593 አ 유

ADE28941 standard; DNA; 20 BP

(first entry) 29-JAN-2004

ADE28941;

NOVX; antidiabetic; anorectic; cardiant; hypotensive; antidiabetic; anorectic; cardiant; hypotensive; antidateriosclerotic; virucide; antibacterial; fungicide; protozoacide; notoropic; neuroprotective; antibacknonian; anticonvulsant; osteopathic; antilinflammatory; dermatological; antiasthmatic; antilipaemic; metabolic; diabetes; obesity; infectious; anoreaxia; cancer; cardiovascular; hypertension; atherosclerosis; neurodegenerative; Alzheimer's disease; Parkinson's; epilepsy; immune; osteoarthritis; haemopoietic; inflammatory skin; asthma; dyslipidaemia; neurogenesis; call differentiatin; proliferation; haemopoiesis; wound healing; anglogenesis; gene therapy; chromosome mapping; tissue typing; human; NOV; PCR; primer; ss; RT-PCR.

Homo sapiens.

05-NOV-2002; 2002WO-US035536

2001US-0336600P. 

2001US-0342592P. 2001US-0344297P. 2001US-0344903P. 2002US-0373288P. 2002US-0380981P. 27-DEC-2001; 31-DEC-2001; 17-APR-2002; 15-MAY-2002;

17-MAY-2002; 2002US-0381495F. 28-MAY-2002; 2002US-0383534F. 28-MAY-2002; 2002US-0383744F. 29-MAY-2002; 2002US-038829F. 29-MAY-2002; 2002US-0348024F. 07-MUG-2002; 2002US-0401788F. 26-MUG-2002; 2002US-0461788F. 31-OCT-2002; 2002US-0468539F. 

(CURA-) CURAGEN CORP.

Alsobrook JP, Alvarez E, Anderson DW, Baron M, Boldog FL;
Burgess CE, Casman SJ, Chapoval A, Dhanabal M, Edinger SR, Eisen A;
Ellerman K, Ettenberg S, Gangolli EA, Gerlach VL, Gorman L;
Grosse WM, Guo X, Hackett C, Ji W, Rekuda R, Khramtsov NV;
Lepley DM, Li L, Macdougall JR, Malyankar UM, Mazur A, Mcqueeney K;
Mezes PS, Miller CB, Millet I, Mishra VS, Padigaru M, Patturajan M;
Pena CEA, Peyman JA, Rastelli L, Rieger DK, Shenoy SG, Shimkets RA;
Smithson G, Starling G, Spytek KA, Stone DJ, Tchernev VT, Twomlow N;
Vernet CAM, Zerhusen BD, Zhong M;

WPI; 2003-441555/41.

New isolated NOVX polypeptides and polynucleotides, useful for preventing, diagnosing or treating NOVX-associated disorders, e.g. osteoarthritis, obesity, atherosclerosis, cancer, Parkinson's disease, asthma, or infections.

Example C; SEQ ID NO 318; 447pp; English.

The invention relates to a novel isolated NOVX polypeptide. The polypeptide of the invention demonstrates, antidiabetic, anorectic, cardiant, hypotensive, antitarteriosolerotic, virucide, antiparkinsonian, indicide, protozoacide, nootropic, neuroprotective, antiparkinsonian, anticonvulsant, osteopathic, antiarthritic, antiinflammatory demanded, protozoacide, nootropic, neuroprotective, antiparkinsonian, anticonvulsant, osteopathic, antiarthritic, antiinflammatory for demanded, antibathmatic and antibodies may be useful for treating or diagnosing diseases including metabolic disorders such as diseases including metabolic disorders such as cardiovascular diseases including hypertension and atheroscierosis, neurodegenerative disorders such as Alzheimer's disease, Parkinson's cardiovascular diseases including hypertension and atheroscierosis, neurodegenerative disorders such as Alzheimer's disease, Parkinson's cardiovascular disorders, inflammatory sin disorders, asthma and dyslipidaemia.

Furthermore, the nucleic acids and polypeptides may also be used to identify molecules that modulate or inhibit neurogenesis, cell differentiation and proliferation, haemopolesis, wound healing and angiogenesis, as well as in gene therapy. Finally, the nucleic acids may be used as hybridisation probes, in chromosome mapping, tissue typing, preventive medicine and pharmacogenomics. The current sequence is that of interior and proliferation the exemplification of the invention

Sequence 20 BP; 10 A; 3 C; 5 G; 2 T; 0 U; 0 Other;

Score 13.8; DB 1; Length 20; Pred, No. 8.6e+02; 0; Mismatches 2; Indels 1240 TICALCITCCGIATCIT 1256 0.8%; Best Local Similarity 88.2 Matches 15, Conservative Query Match

18 Trcarcrrccccarrrr 2

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Gaps

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ADE52127 standard; DNA; 20 ADE52127; RESULT 1140 ADE52127

BP

(first entry) 29-JAN-2004 印数化铁矿铁铝铁

C. tropicalis CYP52A5A/B QC-RT-PCR primer #1

(first entry)

29-JAN-2004

ADE64291;

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New cytochrome P450 and NADPH oxidoreductase, i.e. CFR and CYP, genes and proteins, useful for discriminating members of a gene family by quantifying the amount of target mRNA in a sample, or for omega-oxidation of long chain fatty acids.
Yeast, ss, PCR, primer, cytochrome P450; CVP, NADPH reductase; CPR, omega-hydroxylase complex; omega-oxidation; long chain fatty acid; QC-RT PCR; Quantitative competitive reverse transcriptase PCR.
                                                                                                                                                                                                                                                                  Eirich LD, Eshoo M, Loper JC, Gleeson M;
                                                                                                                                                                                                                                                                                                                                                           Example 11; SEQ ID NO 47; 194pp; English.
                                                                                                         01-MAY-1998; 98US-0083798P.
05-OCT-1998; 98US-0103099P.
10-MAK-1999; 99US-0123555P.
30-APR-1999; 99US-0030520.
12-OCT-2001; 2001US-00976800.
                                                                                        03-MAY-2002; 2002US-00138916
                                                                                                                                                                                                                                                                 Craft DL,
Tang M,
                                                                                                                                                                                EIRICH L D.
ESHOO M.
MADDURI K M.
CORNETT C A.
BRENNER A A.
TANG M.
LOPER J.
COLDERSON M.
                                                                                                                                                                                                                                                                                            WPI; 2003-625522/59.
                                                                                                                                                                 C)
                                    Candida tropicalis
                                                                                                                                                                          CRAFT D L.
                                                      US2003073220-A1
                                                                                                                                                                 WILSON
                                                                                                                                                                                                                                                                           Brenner AA,
                                                                       17-APR-2003
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                                                                                                                                                               (WILS/)
(CRAF/)
(EIRI/)
(ESHO/)
(MADD/)
(CORN/)
(BREN/)
(TANG/)
(LOPE/)
                                                                                                                                                                                                                                                                 Wilson
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Cornett CA;

Madduri KM,

The invention relates to isolated mucleic acids encoding cytochrome P450 (CYP) and NADPH reductase (CPR) enzymes of the omega-hydroxylase complex of candida tropicalis. Also included are the CYP and CRR proteins of candida tropicalis. Also included are the CYP and CRP proteins of CYP52ASA, CYP52ASA, CYP52ASB, CYP52 PCR primer used in the analysis.

Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;

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                                Gaps
                                  ..
0.8%; Score 13.8; DB 1; Length 20;
88.2%; Pred. No. 8.6e+02;
tive 0; Mismatches 2; Indels
                             15; Conservative
              Local Similarity
 Query Match
              Best Loca
Matches
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Gaps

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1010 AGAGGGAGAGCTCAAG 1026

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88.2%;

Local Similarity 88.2 1es 15; Conservative

Best Loca Matches

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AGAGGCAGGGCTCAAG

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ADE64291 standard; DNA; 20 RESULT 1141 ADE64291 ID ADE64291

BP

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The invention relates to an isolated CPRA, CPRE, CYP52A1A, CYP52A2A, CYP52A2B, CYP52A4B, CYP52A4B, CYP52A4B, CYP52A4B, CYP52A4B, CYP52A4B, CYP52A4B, CYP5ABB or CYPCAPL CANDING PART reductase) of the condida tropicalis owega-hydroxylase complex. Also included are the nucleic aids encoding the CYP/CPR proteins (including their coding transformed with the vector, discriminating members of a gene family by quantifying the amount of target mRNA in a sample and increasing production of a dicarboxylic acid (comprising: providing a host cell having a naturally occurring CPR/CPP proceed and culturing the cost cell in media containing an organic substrate which upregulates the cens, to effect increased production of dicarboxylic acid). The CYP and CPR proteins, present in higher levels than normal is useful for increasing production of dicarboxylic acids. The present sequence is a cuntitative competitive reverse transcriptase PCR (QC-RT PCR) primer used to assay the levels of CYP/CPR mRNA in RNA samples.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel isolated CPRA, CPRE, CYP52A1A, CYP52A2A, CYP52A2B, CYP52A3A, CYP52A3B, CYP52A5A, CYP52A5B, CYP52A5B, CYP52A5B, CYP52A6B, CYP52A6B, CYP52D4A protein, useful for increasing production of dicarboxylic acid in cells.
                                                                                                                  CPR; cytochrome P450; CYP; RT PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cornett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.8%; Score 13.8; DB 1; Length 20; 88.2%; Pred. No. 8.6e+02; ve 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Madduri KM,
                                                                                                              Yeast, ss, PCR, primer, NADPH reductase, CPR, cytoc
omega-hydroxylase, dicarboxylic acid, QC-RT PCR,
Quantitative competitive reverse transcriptase PCR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                C. tropicalis CYP52A5A/B QC-RT-PCR primer #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eirich LD, Eshoo M, Loper JC, Gleeson M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 11; SEQ ID NO 47; 195pp; English.
                                                                                                                                                                                                                                                                                                                01-MAY-1998; 98US-0083798P.
05-OCT-1998; 98US-0103099P.
10-MAR-1999; 99US-0123555P.
310-APR-1999; 99US-00302620.
12-OCT-2001; 2001US-00976800.
                                                                                                                                                                                                                                                                                  03-MAY-2002; 2002US-00138905.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Craft DL,
Tang M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ESHOO M.
MADDURI K M.
CORNETT C A.
BRENNER A A.
TANG M.
LOPER J. C.
GLEESON M.
                                                                                                                                                                                                                                                                                                                                                                                                                 WILSON C R.
CRAFT D L.
EIRICH L D.
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                                                                                                                                                                                Candida tropicalis
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                                                                                                                                                                                                                                                  10-APR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                 (WILS/)
(CRAF/)
(EIRI/)
(ESHO/)
(MADD/)
(CORN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (TANG/)
(LOPE/)
(GLEE/)
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schultz621-3.rng

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Protein contg. non-A non-B hepatitis antigen fragment - prepd. by culturing transformants transformed by vector contg. base sequence coding specified aminoacid sequences, used for detecting hepatitis.
                                                                            Hepatitis C virus antigen expressed as recombinant in E.coli - useful for diagnosis of hepatitis C virus infection.
                                                                                                                                                                The sequences given in AAQ27030-77 are primers. These were used to amplify the claimed hepatitis C virus genes of the invention which could then be inserted into an E. coli vector. The polypeptides encoded by the vectors were useful as diagnostic reagents for type C hepatitis and they may be produced efficiently by recombinant methods
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is a primer for a DNA encoding a non-A non-B hepatitis virus (NANBH) or hepatitis C virus (HCV) antigen, useful for diagnosis or detection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 non-A non-B hepatitis virus; NANBH; hepatitis C virus; HCV; antigen;
diagnosis; detection; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                 0
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0.8%; Score 13.8; DB 1; Length 21;

Best Local Similarity 88.2%; Pred. No. 9e+02;

Matches 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                        y Match 0.8%; Score 13.8; DB 1; Length 21; Local Similarity 88.2%; Pred. No. 9e+02; hes 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21 BP; 1 A; 5 C; 13 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                          Sequence 21 BP; 1 A; 5 C; 13 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Primer for hepatitis C virus antigen DNA
                                                                                                                                  Disclosure; Page 64; 66pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 8; 53pp; Japanese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAV05593 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-MAY-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (SHIM/) SHIMOTONO K.
(GREC ) GREEN CROSS CORP.
                (TOKU ) TOKUYAMA SODA KK
                                                WPI; 1992-263663/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1993-260858/33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
Hepatitis virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-DEC-1991;
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                                                                                                                                                                                                                                                                                                                Query Match
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X4X4X44X2X2X22X3X
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Genome position 6813-6833. See also AAQ03898-Q03949. (Updated on 25-MAR-2003 to correct PR field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Detecting and typing human papilloma-virus - using consensus primers in polymerase chain reaction to amplify particular genomic regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                     HPV6 typing probe (MY12) for use with L1 consensus primers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
0.8%; Score 13.8; DB 1; Length 21;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                        Papilloma-virus; consensus primer; PCR; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 6 A; 8 C; 1 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Table 5; 33pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1677 CCCCAACTACATCTTCC 1693
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                                                               AAQ03910 standard; DNA; 21 BP.
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89US-00322550.
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                                                                                                                                    (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Manos MM, Wright DK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1990-116005/15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        (CETU ) CETUS CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HCV primer P6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JP04179482-A
                                                                                                                                                                                                                                                                                                                                                                  09-SEP-1988;
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10-MAR-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-NOV-1990;
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                                                                                                                                    25-MAR-2003
24-AUG-1990
                                                                                                                                                                                                                                                                                                                               22-MAR-1990
                                                                                                                                                                                                                                                             Synthetic.
                                                                                                  AAQ03910;
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                                 RESULT 1142
                                                  AAQ0391
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Page

RESULT 1145

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AAQ5638:

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                                                                                                                                                                                                                                                   New hypoglycosylated recombinant glucose oxidase - produced by expressing Aspergillus GOD gene in yeast mutant with N-glycosylation defect.
                                                                                                                                                                                                                                                                                                                               The sequence is that of a primer which was used in the construction of a plasmid for the secretion of Aspergillus niger glucose oxidase (GOD) in Saccharomyces cerevisiae. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The sequence is that of a PCR primer which was used in the construction of plasmid YEpL/GOD-(His)4 as part of the construction of plasmids for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Amplification; secretion; plasmid; construction; glucose oxidase; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 0.8%; Score 13.8; DB 1; Length 21; Best Local Similarity 88.2%; Pred. No. 9e+02; Matches 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yeast mutants with N-glycosylation defects - for prodn. glycosylated proteins, including recombinant proteins.
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 7 A; 10 C; 3 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Plasmid YEpL/GOD-(His)4 construction primer.
                                                                                                                                                   (BOEF ) BOEHRINGER MANNHEIM GMBH.
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                                                                                                                                                                                                                                                                                                     Example 1; Page 7; 27pp; German.
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                                                                                      93DE-04301904,
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93DE-04301932.
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22-JUL-1994 (first entry)
                                                                                                                                                                                      Kopetzki E, Lehnert K;
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25-JAN-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The sequence is that of HPV6 typing probe MY12 for use with L1 consensus primers as part of a simple and rapid assay method for detecting and typing HPV in biological samples. (Updated on 25-MAR-2003 to correct PF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Detection of genital human papilloma virus - by PCR amplification using defined consensus primer pairs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GOD; enzyme; recombinant; hypoglycosylated; Aspergillus niger; yeast; expression; Saccharomyces cerevisiae; ss.
                                                                                                                                                                                                                                               Human papilloma virus, amplification; polymerase chain reaction; PCR; detection; assay; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21 BP; 6 A; 8 C; 1 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                L1 consensus primer HPV6 typing probe MY12.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure, Page 8; 13pp, English.
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89US-00322550.
89WO-US003747.
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                                                                                                                                                                                   (first entry)
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                                                                                                                                                                   (revised)
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10-MAR-1989;
29-AUG-1989;
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29-JUL-1994
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08-AUG-1994
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RESULT 1146 AAQ56141

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enrichment; SELEX;

(first entry)

94US-00195005. 94US-00219012.

95WO-US001458

Tasset D;

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Identification of ligands to basic fibroblast growth factor and thrombin - which can be modified for increased in vivo stability.
                                                                               Family 1; family 2; ligand; thrombin;
systematic evolution of ligands by exponential enrich
heparin; selection; region of homology; inhibitor; ss
                                                             Family 2 bFGF DNA consensus ligand (experiment 3)
                                                                                                                                                                                                                                                                                                                                                                   Claim 21; Page 106; 236pp; English.
                                                                                                                                                                                                                                                              (NEXS-) NEXSTAR PHARM INC.
                                                                                                                                                                                                                                                                                                          WPI; 1995-293073/38.
                                                                                                                                                                                                                                                                                   Janjic N, Gold L,
                                                                                                                                                                                                     06-FEB-1995;
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28-MAR-1994;
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                                      14-AUG-1996
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                                                                                                                                 Synthetic.
                AAT00342;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The human papilloma virus (HPV) specific probes AAT10818-T10839 are used to detect, or type HPV for research or diagnostic purposes, e.g. to identify HPV that are implicated in genital or oral carcinomas. (Updated on 25-MAR-2003 to correct PF field.)
the secretion of A. niger glucose oxidase (GOD) in S. cerevisiae. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PA field.)
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                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                            Human papilloma virus, probe, detection, diagnosis, genital, oral,
carcinomas, research, typing, HPV6, specific, MY12, ss.
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                                                                                                                                                                                                                                                                                      Human papilloma virus 6 specific oligonucleotide probe MY12.
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88.2%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                                                                       Ouery Match
0.8%; Score 13.8; DB 1; Length 21;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels
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                                                 Sequence 21 BP; 7 A; 10 C; 3 G; 1 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Manos MM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 3; Col 15-16; 36pp; English.
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                                                                                                                         225 TGAGAGTGGTGGTG 241
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89WO-US003747.
90US-00613142.
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(first entry)
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Best Local Similarity 88.2°
Matches 15; Conservative
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10-MAR-1989;
09-SEP-1989;
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10-APR-1996
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The sequences given in AAT00282-394 represent DNA ligands to basic fibroblast growth factor (bFGF). These sequences were isolated using the primers and target regions given in AAG98421-29 using systematic primers and target regions given in AAG98421-29 using systematic containing a region of 30 or 40 random nucleotides flanked by constant sequence regions, were synthesized. The constant regions were designed to be amplified by the primers. The primer 3p7.1PS has 2 biotin phosphoramidites and two additional A residues covalently attached to its prophoramidites and two additional A residues covalently attached to its 5 terminus during synthesis. The randoms region was generated by utilising an equimolar mixture of the four nucleotides during oligonucleotide synthesis. Three pools of ssDNA were created that contain internal random regions. Each pool was incubated with bEGF at an excess of DNA to target. DNA bound to bEGF were selected by filtration. The selected single stranded DNA (ssDNA) was then amplified by PCR. A significant improvement in affinity of DNA ligands was seen after 10 tounds of selection. Five distinct families of ssDNA were identified, based on regions of homology. Some sequences showed no obvious homology to the five families and are considered to be orphans
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 3 A; 4 C; 5 G; 2 T; 0 U; 7 Other;
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hes 12; Conservative
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Best Local Si
Matches 12;
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AAT35284/c
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AAT00342 standard; DNA; 21 BP

RESULT 1149 AAT00342/c ID AAT00342

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The invention relates to new oligonucleotide probes and primers used for the detection of human papillomaviruses (HPV) which are not genital types 6, 11, 16, 18 or 33. The probes and primers AAT4608-T44693 are esp. used to detect HPV types 26, 31, 31B, 35, 39, 40, 43, 45, 51-59 and 68. The primers can be used to detect these HPV types in conjunction with the consensus primers and typing probes AAT4733-T4906, which are based on and amplify fragments of the L1, E6, E7 and E1 regions of the HPV sequences. Detection of the amplification prodes is done with probes derived from consensus sequences found in all characterised HPV derived from amplified products generated by L1 consensus primers. This sequence is a sense probe which has specificity for HPV6 and binds to the HPV genome at position 6813. (Updated on 25-MAR-2003 to correct PF
                                                  Nucleic acid hybridisation probes - specific for selected human papilloma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New oligo:nucleotide probes for human papilloma-virus - used for detecting and typing HPV and for detecting previously unknown HPV types and subtypes.
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18.2%; Pred. No. 9e+02;
ve 0; Mismatches 2; Indels
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                                                                                                   Disclosure, Col 31-32; 96pp; English
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89US-00322550.
89WO-US003747.
90US-00613142.
93US-00050743.
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Best Local Similarity 88.2%;
Matches 15; Conservative
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(first entry)
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Gravitt PB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1997-332084/30.
                WPI; 1996-299903/30.
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14-NOV-1990;
20-APR-1993;
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07-OCT-1997
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                                                                    virus types.
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                                                                                                                                                                                                                                                                                                                                                                                                                          A set of internal sequencing primers (AAT35281-91) were used to sequence cDNA clone E1-C19 (see also AAT35277), which codes for chemokine receptor K5.5 (AAR99274). They were designed on the basis of previous sequencing
                                                                                                                                                                                                                                                                                                                      Chemokine receptor which binds MIP-1-alpha, RANTES and/or MCP-1 - useful in screening for agents to treat asthma, hay fever, eczema, allergies, atopic dermatitis, rhinitis or conjunctivits.
Chemokine receptor K5.5; MIP-1-alpha; RANTES; MCP-1; allergy; atheroma; HIV; AIDS; graft rejection; stem cell; primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.8%; Score 13.8; DB 1; Length 21;
88.2%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HPV typing probe MY12 for use with L1 consensus primers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence 21 BP; 6 A; 4 C; 7 G; 4 T; 0 U; 0 Other;
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89WO-US003747.
90US-00613142.
93US-00050743.
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                                                                                                                                                     96WO-GB000143,
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(first entry)
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Best Local Similarity 88.2
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAT44762 standard; DNA;
                                                                                                                                                                                                                     (GLAX ) GLAXO GROUP LTD
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                                                                                                                                                                                                                                                       Power CA;
                                                                                                                                                                                                                                                                                        WPI; 1996-362692/36.
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09-SEP-1989;
14-NOV-1990;
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                                                                                    WO9623068-A1
                                                                                                                                                     24-JAN-1996;
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29-JAN-1997
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                                                  Synthetic.
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Human papillomavirus, HPV, HPV detection, HPV typing;

Ll type-specific probe; ss

Human papillomavirus

Synthetic

US5705627-A.

Probe MY12 for human papillomavirus typing.

(revised)
(first entry)

25-MAR-2003 04-JUN-1998

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Gaps

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BP.

standard; DNA; 21

AAV17380 AAV17380,

RESULT 1154

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The sequence is that of a PCR primer plas which was used in the isolation of DNA encoding a major subunit of the Duffy blood group antigenic system, the gp-Fy proteins. The gp-Fy proteins are gp-Fy alpha and gp-Fy beta which are produced from the same gene wis a mRNA spliting mechanism. It contains the major receptor by which plasmodium vivax enters red blood cells (RBC) and causes malaria. The proteins are thus useful in protein or certain fragments of it, may also be used to generate antibodies, complementary peptides and drugs modelled on their tertiary structure, useful in the same way
                                                              The present sequence is a human papillomavirus 6 (HPV6) specific typing probe. (Updated on 25-MAR-2003 to correct PF field.) (Updated on 25-MAR-2003 to correct PR field.)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gp-FY protein; Fyb71-81; duffy blood group; antigen; alpha; beta;
alternative splicing; RBC; red blood cell; malaria; treatment;
PCR primer; ss.
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88.2%; Pred. No. 9e+02;
ative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                0.8%; Score 13.8; DB 1; Length 21;
88.2%; Pred. No. 9e+02;
iive 0; Mismatches 2; Indels
                                                                                                                                                                                                      Sequence 21 BP; 6 A; 8 C; 1 G; 6 T; 0 U; 0 Other;
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   Disclosure; Col 115-116; 94pp; English
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Best Local Similarity 88.2
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                            Local Similarity
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Homo sapiens.
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                                                                                                                                                                                                                                                                           Query Match
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Human papilloma probes and primers - useful for, e.g. detecting and typing of human papilloma viruses.

Manos MM;

Bauer HM,

Greer CE,

Ting Y, Resnick RM,

WPI; 1998-192210/17

(HOFF ) ROCHE MOLECULAR SYSTEMS INC.

88US-00243486. 89US-00322550. 90US-00613142. 93US-00050743.

09-SEP-1988; 10-MAR-1989; 14-NOV-1990; 20-APR-1993;

95US-00452055

26-MAY-1995;

06-JAN-1998

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                                                                                                                                                                                                                                                                                                                                                                                                                                                     This sequence represents a human papillomavirus (HPV) L1 type-specific probe of the invention. This sequence may be used in conjuncture with L1 specific primers for detecting and typing HPV. Identification and typing of HPV is important as different types of HPV pose different risks for infected individuals. HPV16 and HPV18 have been more consistently identified in higher grades of cervical dysplasia and carcinoma than other HPV types. (Updated on 25-MAR-2003 to correct PR field.)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%; Score 13.8; DB 1; Length 21;
18.2%; Pred. No. 9e+02;
ve 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer for prostate specific antigen.
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Best Local Similarity 88.2
Matches 15; Conservative
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AAV38524
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Gaps

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1146 TCAGATTGACATGTGGG 1162

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rcaggrigacaggrege 17

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Primers hTSCex19 forward and reverse (see AAV40603 and AAV40604, respectively) are designed to amplify exon 19 of the human hTSC gene (see AAV40651) that codes for thiaride-sensitive Na-Cl cotransporter TSC (see AAV20681). Both primers are located within introns of hTSC. 27 Sets of specific primers (see AAV40658) were used for SSCP analysis of hTSC. Amplified products were analysed for molecular variants by electrophoresis, and identified variants were sequenced. Complete linkage of Gitelman's syndrome with TSC was demonstrated. Identification of the molecular basis of Gitelman's syndrome allows for the genetic diagnosis of this disorder. The invention provides products and methods useful for disorders and treatment of Gitelman's syndrome and other ion transport
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Thiazide sensitive cotransporter and ATP sensitive potassium channel genes - useful for developing products for the diagnosis and treatment of ion transport disorders, e.g. Gitelman's Syndrome or Bartter's Syndrome.
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ion transport; Gitelman's syndrome; Bartter's syndrome;
hypokalaemic alkalosis; hypocalciuria; hypomagnesemia; diagnosis;
therapy; SSCP; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.8%; Score 13.8; DB 1; Length 21; 88.2%; Pred. No. 9e+02; ive 0; Mismatches 2; Indels
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Best Local Similarity 88.2
Matches 15; Conservative
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                                                                                                                            Homo sapiens
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                                                                                                      Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This sequence is a PCR primer for the gene encoding the prostate specific antigen, and were used in the method of the invention. The method is for identifying markers for a disease state, and comprises: (a) providing a clirat set of peripheral blood mRNAs from one or more normal subjects known to exhibit the disease state and a second set of peripheral blood mRNAs from one or more normal subjects to fmRNAs trom one or more normal subjects of mRNAs to provide nucleic acid amplification products; (c) comparing the sets of mRNAs to provide nucleic acid amplification products; (c) comparing the sets of an expectation products; (d) dentifying those mRNAs that are disease state; where a difference in quantity of expression of an mRNA is indicative of a disease marker. The identified marker sequence the disease state; where a difference in quantity of expression of an mRNA is indicative of a disease marker. The identified marker sequence concluded in a method of detecting a metastatic cancer disease state, especially for detection prostate cancer. Using the methods, a disease state may be detected, diagnosed, or a prognosis may be delivered by examining a blood sample rather than relying on a more invasive, or less transmitive test. In addition, a subject may be monitored for disease to grogression, status and response to therapies through monitoring of differentially expressed disease markers. The methods can be used for disease such as cancer (especially metastatic or prostate concer (especially metastatic or grossate solved), asthma. Hupus erythematosus, rheumatoid arthritis, multiple sclerosis, interstitial cystitis, prostatis or other systemic or chronic conditions interstitial cystitis, prostatis or other systemic or directing and prostates or other systemic or directions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying markers for disease states - by amplifying RNA from peripheral blood and identifying RNA which is differential expressed between normal and disease state subjects.
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     amyloid lateral sclerosis; interstitial cystitis; prostatis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.8%; Score 13.8; DB 1; Length 21;
88.2%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 3 A; 6 C; 8 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Veltri R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 6; Page 98; 158pp; English.
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                                                                                                                                                                                                                                                                                                     96US-0032619P.
96US-0032701P.
97US-0041576P.
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                             prostate specific antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ohara M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
es 15; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1998-333350/29
                                                                                                                                                                                                                                                                                                                                                                                                         (UROC-) UROCOR INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           An G
                                                                                                                                                                                                                                                                                                     06-DEC-1996;
12-DEC-1996;
24-MAR-1997;
                                                                                                            Homo sapiens
                                                                                                                                                         WO9824935-A1
                                                                                                                                                                                                                                                        05-DEC-1997;
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                                                                                                                                                                                                        11-JUN-1998
                                                                               Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ralph D,
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Gaps

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This invention describes a novel method for identifying an inhibitor potentially useful for treatment of cancer, where the inhibitor is active on a gene vital for cell growth or viability, and where the gene is subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is used for preventing the development of cancer in a patient having a precancerous condition, by administering to the patient a first allele present in cells of the precancerous condition, where the normal somatic calls of the patient are heterozygous for the first gene, the inhibitor is active on at least one but less than all allelic forms of the gene present in a population and targets only one allelic forms of the gene present in a population and targets only one allelic forms present in the normal somatic cells, and the first gene. The products and methods can be used in the diagnosis, prevention and treatment of LOH disorders, e.g. cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic lesions, benign tumours, endometriosis, polycystic kidney disease, and malignant cells from bone marrow transplants. AAZ25812-Z26825 represent human polymorphic sites described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plague, dysplastic lesions, endometriosis or graft versus host disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 14; Fig 1; 605pp; English.
98WO-US005419.
                                                                                               97US-0041057P
                                                                                                                                                                                         (VARI-) VARIAGENICS INC
                                                                                                                                                                                                                                                                                              Ledley FD,
                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1998-521232/44.
                                                                                               20-MAR-1997;
19-MAR-1998;
                                                                                                                                                                                                                                                                                              Housman D,
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Stanton VP;

Sequence 21 BP; 2 A; 5 C; 10 G; 4 T; 0 U; 0 Other;

0.8%; Score 13.8; DB 1; Length 21; 88.2%; Pred. No. 9e+02; rative 0; Mismatches 2; Indels 741 CACCGCCATCCGGGAAG 757 15; Conservative Query Match Best Local Similarity Best Loca Matches

Gaps .; 0

19 CACCGCCATCCTGGGAG 3

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AAZ30746 standard; DNA; 21 BP. AAZ30746; RESULT 1158 AAZ30746 

19-JAN-2000 (first entry)

Human prostate specific antigen PCR primer #15.

Prostate specific antigen, DNasel, marker, expression, diagnosis, differential, disease, cancer; metastatic; breast cancer; prostate; peripheral leukocyte; immune response; asthma; lupus erythematosus; rheumatoid arthritis; multiple sclerosis; myasthenia gravis; autoimmune thyroiditis; amyotrophic lateral sclerosis; ALS; interstitial dystitis; prostatitis; mRNA; PCR; reverse transcriptase-PCR; RT-PCR; screening; early; diagnosis; prognosis; monitoring; primer; ss.

Homo sapiens Synthetic

NO9949083-A1

30-SEP-1999

99WO-US006488 24-MAR-1999;

This sequence represents human prostate specific antigen (PSA) PCR primer #15, used with PCR primer #16 (AA230747) in experiments to confirm whether a sample of total call RNA treated with DNAssel is completely free of DNA. If contaminating DNA is present, these primers will amplify a PCR product, which can be visualised via agarose gel electrophoresis. Once DNA has been completely removed from total cell RNA, the RNA can be used as a template for relative quantitive reverse transcriptase-PCR (RT-PCR) amplification of novel markers of human disease. PCR (RT-PCR) amplification of novel markers of human disease (AA230713-Z30719). These markers are differentially expressed in peripheral leukocytes between healthy subjects and patients with metastatic cancers (especially those of the prostate or breast). Detecting levels of such human disease (CC markers is used for diagnosis (also prognosis and monitoring) of diseases, including metastatic or organ-confined cancers, and diseases which also elicit an immune response such as asthma, lupus erythematosus, the particular way trivils, multiple sclerosis, mysathenia gravis, autoimmune thyroiditis, amyotrophic lateral sclerosis (ALS), interstitial cystitis and prostatitis but especially metastatic prostatic and breast cancer and benign prostatic hypertrophy, and between prostatic cancer and benign prostatic hypertrophy, and between advanced and localised prostatic cancers cancer by multivariate analysis of several different markers. Cancers cancer by multivariate analysis of several different markers. Cancer of disease markers. The method detects a leukocyte response to disease rather than products of disease can be detected at an early stage, when few, if any, diseased cells are present in the inverse or or ordining amples eliminates the present in the inverse or ordinarion and products of disease can be researed for more inverse or ordinarion. Identifying markers of human disease, specifically for diagnosis of metastatic prostatic and breast cancers. An G, O'hara SM, Veltri RW; invasive methods for obtaining samples Disclosure, Page 101; 225pp; English 98US-00046894. (UROC-) UROCOR INC. 24-MAR-1998; Ralph D, 

Sequence 21 BP; 3 A; 6 C; 8 G; 4 T; 0 U; 0 Other;

Gaps . 0 Query Match 0.8%; Score 13.8; DB 1; Length 21; Best Local Similarity 88.2%; Pred. No. 9e+02; Matches 15; Conservative 0; Mismatches 2; Indels Query Match

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AAX78886 standard; DNA; 21 BP RESULT 1159 AAX78886

08-SEP-1999 (first entry) AAX78886; 

Human plasminogen PCR primer plg+289.

Tissue factor; human; thrombogenic; substructure; thrombose; tumour; vasculative malformation; vascular endothelium; plasminogen; PCR primer;

Homo sapiens.

WO9932143-A1.

01-JUL-1999.

schultz621-3.rng

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This invention describes novel thrombogenic polypeptides which comprise a thrombogenic substructure and a context-dependent entity which recognizes desired biologically susceptible sites, e.g. tumour vascular endothelium. A novel context-dependent functional entity comprises a substructure with having the ability to recognize desired biologically susceptible sites, where the entity imparts thrombogenic activity when positioned in the function-forming-context at the biologically susceptible sites, and the printly has no thrombogenic activity absent a function-forming-context at the biologically susceptible sites, the context-dependent functional entities impart thrombogenic activity only at biologically susceptible sites. The context-dependent functional entities impart thrombogenic activity only at biologically susceptible sites. The context-dependent functional entities impart thrombose the obliterate vasculative malformations or to selectively thrombose the vasculature of solid tumours. This sequence represents a human plasminogen FCR primer used in the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human ABC1 cholesterol transporter; chromosome 9q31;
ATP-binding cassette; HDL deficiency disorder; high density lipoprotein;
Tangier disease; TD; familial HDL deficiency; FHA; polymorphism;
cardidovascular disease; coronary artery disease; coronary restenosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cerebrovascular disease, peripheral vascular disease;
Alzheimer's disease, Niemann-Pick disease; Huntingcon's disease;
X-linked adrenoleukodystrophy; cancer; gene therapy; genetic diagnosis;
prognosis; prophylaxis; drug screening; transgenic animal; ds.
                                                                                                                                                                                                                                                                                                                                                       thrombogenic polypeptides used to, e.g. obliterate vasculative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human ABC1 gene exon 7 fragment corrected sequence, SEQ ID NO:171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.8%; Score 13.8; DB 1; Length 21; 88.2%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 8; Page 81; 97pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGGATGACTGTGGGAA 890
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99US-0139600P.
99US-0151977F.
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22-DEC-1998; 98WO-US027498.
                                                                       97US-00996744
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                                                                                                                                                                                                               Houston LL, Dickinson CD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity 88.2
15; Conservative
                                                                                                                                                                                                                                                                                   WPI; 1999-405116/34.
                                                                                                                                           (NUVA-) NUVAS LLC.
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                                                                                                                                                                                                                                                                                                                                                                                             malformations.
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17-JUN-1999;
01-SEP-1999;
                                                                       23-DEC-1997;
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The invention relates to the human ABC1 cholesterol transporter protein CB1818032 and to nucleic acid sequences (C69120) which encoded it. ABC1 is a member of the ATP-binding cassette (ABC transporter) superfamily of proteins, and plays a crucial role in cholesterol transport, particularly of intracellular cholesterol trafficking in momocytes and fibroblasts, being involved in cholesterol trafficking in momocytes and fibroblasts, being cinvolved in cholesterol trafficking in momocytes and fibroblasts, being cinvolved in cholesterol efflux from the cell. The gene are associated with two genetic PMD (High density lipoprocein) deficiency discases compared to the familial HDL deficiency (FHA). These diseases compared in that TD is an autosomal recessive diseases compared to the particularly coronary artexy disease, but also cerebrovascular disease, particularly coronary artexy disease, but also cerebrovascular disease, compared to the propheral vascular disease. Conversely, a high level of HDL has protective effects against cardiovascular disease. The invention provides genetic constructs and craftovascular disease. Computation for transgenic cells and non-human animals comparised pluman ABC1 nucleic cardiovascular disease compounds which mined ABC1 activity, compounds which compounds which mined ABC1 activity, compounds which mined ABC1 activity, compounds which mined ABC1 activity, compounds which compounds which mined ABC1 activity, compounds which mined ABC1 activity, compounds which attains and nucleotides can be used to trace or correspond to the cardiovascular disease, occonary restenois or peripheral vascular disease. They may also be used in the treatment of disease, Niemann-Pick disease, Huntington's disease, compounds which as alzeber a patient has an expensed and nucleotides can be used to trace or cerebrovascular disease, compounds which and adendate a patient as associated with ABC1 proteins and methods of screening or peripheral vascular disease, Human ABC1 proteins and methods or peripheral vascular
                                                                                                                                                                         New ABC1 polypeptide is useful for treating diseases associated with ABC1 biological activity, e.g. Alzheimer's disease, Huntington's disease and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 21 BP; 7 A; 5 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 13.8; DB 1
Pred. No. 9e+02;
0; Mismatches
                                                                                    Pimstone SN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                    Example; Fig 11; 229pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human ABC1 gene exon fragments
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        375 GGCTTCAGCCACGTCCT 391
              (UYBR-) UNIV BRITISH COLUMBIA. (XENO-) XENON BIORESEARCH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 88.2
Matches 15; Conservative
                                                                                      Wilson AR,
                                                                                                                             WPI; 2000-587528/55.
                                                                                      Hayden MR,
                                                                                                                                                                                                                           cancer.
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Splice variant; kappa3 opioid receptor; muopioid receptor-1; KOR-3; morphine analgesia; opioid-mediated ingestive response; opioid; PCR primer used to amplify kappa3-related opioid receptor cDNA.

AAZ60648 standard; DNA; 21 BP.

RESULT 1161

(first entry)

16-MAY-2000

AAZ60648;

schultz621-3.rng

98US-0093002P

Pan Y;

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continuers AAZ60647-48 were used to amplify cDNA fragments of the murine kappa3 opioid receptor (muopioid receptor-1, KOR-3). The specification describes four new exons of the KOR-3 gene, which combine to yield seven new KOR-3 splice variants of human, mouse and rat origin. These splice variants are potential targets for modulating morphine analgesia and opioid-mediated ingestive responses. The KOR-3 polypeptide are used to careen compounds for opioid activity. Such compounds are potential analgesics or more generally agents that affect gastrointestinal analgesics or more generally agents that affect gastrointestinal morphine, e.g. regulators of peristalsis. Antagonists, agonists and ligands of KOR-3, as well as DNA vectors expressing KOR-3-encoding nucleic acids, or sequences antisense to XOR-3 nucleic acids, are used to regulate morphine analgesia and body weight. The level of KOR-3 or tissue distribution of KOR-3 can be measured to diagnose KOR-3 related pharmacological abnormalities or neuroendocrine disorders, particularly gene, or with endogenous alleles deleted, are used to study loss or gain of function phenotypes
                                                                                                                                                                                                                                                                                                                                                                                                                         New splice variants of the kappa-opioid receptor, useful in screening for selective analgesics and for regulating morphine analgesia or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Splice variant; kappa3 opioid receptor; muopioid receptor-1; KOR-3; morphine analgesia; opioid-mediated ingestive response; opioid; manalgesic; gastrointestinal motility; respiration; immune system; endocrine system; autonomous nervous system; peristalsis regulator; body weight; neuroendocrine disorder; PCR primer; 88.
analgesic; gastrointestinal motility; respiration; immune system; endocrine system; autonomous nervous system; peristalsis regulator; body weight; neuroendocrine disorder; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR primer used to amplify kappa3-related opioid receptor cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 4 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
0.8%; Score 13.8; DB 1
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                            (SLOK ) SLOAN KETTERING INST CANCER RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 29; 61pp; English.
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                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-182421/16.
                                                                                                                            WO200004151-A2
                                                                                                                                                                                                                                                       16-JUL-1998;
                                                                                                                                                                                                                                                                                                                                       Pasternak G,
                                                                                                                                                                      27-JAN-2000
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AAZ60652/
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contribes four new axons of the KOR-3). The specification describes four new axons of the KOR-3 gene, which combine to yield seven new KOR-3 splice variants of human, mouse and rat origin. These splice variants of human, mouse and rat origin. These splice variants are potential targets for modulating morphine analgesia and opioid-mediated ingestive responses. The KOR-3 polypeptide are used to opioid-mediated ingestive responses. The KOR-3 polypeptide are used to coreen compounds for opioid activity. Such compounds are potential analgesics or more generally agents that affect gastrointestinal continuous patents. Antagonists, agonists and systems, e.g. regulators of paristalsis. Antagonists, agonists and systems, e.g. requences antisense to KOR-3 nucleic acids, or sequences antisense to KOR-3 nucleic acids, are used to regulate morphine analgesia and body weight. The level of KOR-3 or tissue distribution of KOR-3 can be measured to diagnose KOR-3 related particularly contribed disorders. Transgenic animals with extra copies of the KOR-3 gene, or with endogenous alleles deleted, are used to study loss or gain of function phenotypes
                                                                                                                                                                                                                                                                  New splice variants of the kappa-opioid receptor, useful in screening for selective analgesics and for regulating morphine analgesia or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human biallelic marker downstream amplification primer SEQ ID NO:11492.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; amplification; single nucleotide polymorphism; SNP; PCR primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 0.8%; Score 13.8; DB 1; Length 21; Best Local Similarity 88.2%; Pred. No. 9e+02; Matches 15; Conservative 0; Mismatches 2; Indel8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21 BP; 4 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                            KETTERING INST CANCER RES
                                                                                                                                                                                                                                                                                                                                            Example 1; Page 30; 61pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         681 CACAGACAACCTIGIGG 697
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                                                                                        99WO-US015977
                                                                                                                         98US-0093002P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-SEP-2001 (first entry)
                                                                                                                                                                                                 Pan Y;
                                                                                                                                                                                                                                    WPI; 2000-182421/16.
                 WO200004151-A2
                                                                                                                                                            (SLOK ) SLOAN
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                                                                                                                                                                                               Pasternak G,
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                                                                                     15-JUL-1999;
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                                                    27-JAN-2000
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                                                                                                                                                                                                                                                                                                         weight.
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681 CACAGACAACCTIGIGG 697

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DB 1; Length 21; 2; Indels

99WO-IB000822

21-APR-1999;

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AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ7440 represent amplification primers for the biallelic markers. The biallelic markers of the invention bave a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3036, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
polymorphism; vascular disease; coronary artery disease; forensics;
myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
pulmonary embolism; paternity test; ds.
                                                                                       Novel biallelic markers used to construct a high density disequilibrium
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/standard_name= "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.8%; Score 13.8; DB 1; Length 21;
88.2%; Pred. No. 9e+02;
ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Daley GQ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21 BP; 7 A; 7 C; 2 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human gene single nucleotide polymorphism #163.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bolk S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (WHED ) WHITEHEAD INST BIOMEDICAL RES. (MILL-) MILLENNIUM PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ireland JS,
                                                                                                                                                                                         Claim 9; Page 2443; 2745pp; English.
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26-JUL-2000; 2000US-0220947P.
16-AUG-2000; 2000US-025724P.
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                                                                                                                          of the human genome
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                           WPI; 2000-013267/01.
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Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        present invention
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Variation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ65554 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ6794 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haphortyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment. W.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3086, 3157, 3227, 3297 and 3037, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                   Novel biallelic markers used to construct a high density disequilibrium map of the human genome.
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S. Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 4 A; 5 C; 6 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                        Chumakov I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 9; Page 2680; 2745pp; English.
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98US-0109732P.
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                                                       98US-0082614P.
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23-NOV-1998;
                                                       21-APR-1998;
23-NOV-1998;
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Best Local S
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AAZ76024

Mccarthy JJ;

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Gaps

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The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various oblymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atheroscheosis, mycoardial infarction, concary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human, variant thrombospondin 1; variant thrombospondin 4; SNP;
polymorphism; vascular disease; coronary artery disease; forensics;
myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and
     Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and
                                                                                                                                                                                                                                                                                                                                                                  0.8%; Score 13.8; DB 1; Length 21;
llarity 88.2%; Pred. No. 9e+02;
Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                    Sequence 21 BP; 6 A; 11 C; 2 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human gene single nucleotide polymorphism #611.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pulmonary embolism; paternity test; ds
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                                                                                              Example; Page 59; 242pp; English.
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26-JUL-2000; 2000US-0220947P.
16-AUG-2000; 2000US-025724P.
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AAF95850 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                            226 GAGAGTGGTGGTGGTGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-226749/23.
                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 15; Conserv
                                                                 atherosclerosis.
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Variation
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/\*tag= a /standard\_name= "single nucleotide polymorphism"

Location/Qualifiers replace(11,T)

Mccarthy JJ;

Daley GO,

Bolk S,

Ireland JS,

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                                                  The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various oblymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
polymorphism; vascular disease; coronary artery disease; forensics;
myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
pulmonary embolism; paternity test; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and atherosclerosis.
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                                                                                                                                                                                                                                                                          Query Match 0.8%; Score 13.8; DB 1; Length 21; Best Local Similarity 88.2%; Pred. No. 9e+02; Matches 15; Conservative 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                Sequence 21 BP; 5 A; 5 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human gene single nucleotide polymorphism #2182.
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                              Example, Page 90; 242pp; English.
                                                                                                                                                                                                                                                                                                                                           190 AAGACCAATGGTGCCCC 206
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26-JUL-2000; 2000US-0220947P.
16-AUG-2000; 2000US-0225724P.
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                                                                                                                                                                                                                                                                                                                                                                 AAGACTAATGGTGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAF97421 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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atherosclerosis.
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Variation
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Gaps

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242

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The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclarosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
      888888888888888888
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Sequence 21 BP; 7 A; 8 C; 4 G; 2 T; 0 U; 0 Other;

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Score 13.8; DB 1; Length 21;
Pred. No. 9e+02;
0; Mismatches 2; Indels
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 0.8%;
                                                  392 CGGATGAGGTGCAGTCT
                          15; Conservative
 Query Match
Best Local Similarity
                          Matches
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Gaps

; 0

20 CTGTTGAGGTGCAGTCT

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AAF96964 standard; DNA; 21
    (first entry)
    06-JUN-2001
  AAF96964;
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BP

Human gene single nucleotide polymorphism #1725

Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism; pulmonary embolism; paternity test; ds.

Homo sapiens

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Location/Qualifiers
            replace(11,C)
/*tag= a
            Variation
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/standard\_name= "single nucleotide polymorphism"

WO200118250-A2

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15-MAR-2001
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10-SEP-1999; 99US-0153357P. 26-JUL-2000; 2000US-0220947P. 16-AUG-2000; 2000US-025724P.

07-SEP-2000; 2000WO-US024503

(WHED ) WHITEHEAD INST BIOMEDICAL RES. (MILL-) MILLENNIUM PHARM INC Bolk S, Daley GQ, Ireland JS, Gargill M, WPI; 2001-226749/23 Lander ES,

Mccarthy JJ;

applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and Nucleic acids comprising single nucleotide polymorphisms, useful in atherosclerosis

Example, Page 163; 242pp; English.

The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polyworphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided

The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atheroselerosis, myocadial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also

Example; Page 140; 242pp; English.

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in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                         Human, variant thrombospondin 1, variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mccarthy JJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nucleic acids comprising single nuclectide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and atherosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /standard_name= "single nucleotide polymorphism"
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                                                                                                                                             0.8%; Score 13.8; DB 1; Length 21;
88.2%; Pred. No. 9e+02;
iive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Daley GO,
                                                                                                                  Sequence 21 BP; 3 A; 4 C; 6 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                Human gene single nucleotide polymorphism #1343.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pulmonary embolism; paternity test; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (WHED ) WHITEHEAD INST BIOMEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gargill M, Ireland JS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                       1031 CTGACTTTGGCCTGGCC 1047
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/*tag= a
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26-JUL-2000; 2000US-0220947P.
16-AUG-2000; 2000US-0225724P.
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                                                                                                                                                                                                                                                                                                           AAF96582 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                            15; Conservative
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                                                                                                                                                Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                               RESULT 1169
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schultz621-3.rng

SNP specific lower PCR primer SEQ ID 3026.

(first entry)

14-AUG-2001

AAH40230;

AAH40230 standard; DNA; 21

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The present invention relates to a method for treating a patient diagnosed as having a lower than normal high density lipoprotein-cholesterol (HDL-C) level, a higher than normal triglyceride level, or a cardiovascular disease, involving administering a compound that modulates LXR. or RXR-mediated transcriptional activity or ABC1 expression or activity. The LXR gene product may be used in an assay to identify compounds useful for the treatment of a disease or condition selected a lower than normal HDL cholesterol level, a higher than normal triglyceride level, and a cardiovascular disease
                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Treating a lower than normal high density lipoprotein-cholesterol (HDL-C) level, a higher than normal triglyceride level, or a cardiovascular disease, by administering a compound that modulates LXR- or RXR-mediated
useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                 High density lipoprotein-cholesterol; HDL-C; cardiovascular; ABCl; ds.
                                                                                                                                   Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.8%; Score 13.8; DB 1; Length 21; 88.2%; Pred. No. 9e+02; ive 0; Mismatches 2; Indels
                                                                                                Length 21;
                                                                                                                                 2; Indels
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                                                                                              Score 13.8; DB 1;
Pred. No. 9e+02;
0; Mismatches 2;
                                                               Sequence 21 BP; 5 A; 5 C; 8 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Fig 4; 317pp; English.
                                                                                                                                                                                                                                                                                                                                                                                     7 corrected sequence.
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0
                                                                                                                                                                   1268 CTGAGGAGACGTGGCCA 1284
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (UYBR-) UNIV BRITISH COLUMBIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-SEP-1999; 99US-0151977P.
15-MAR-2000; 2000US-00526193.
23-JUN-2000; 2000US-0213958P.
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                                                                                                  0.8%;
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                                                                                                                                                                                                                                                                                   AAF93032 standard; DNA; 21
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                                                                                                  Query Match
Best Local Similarity 88.2
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-244356/25.
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                                                                                                                                                                                                                                                   RESULT 1170
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Sequences AAH17205 - AAH40944 represent PCR primers, single nucleotide polymorphisms SNPs. The present invention sites of single nucleotide polymorphisms SNPs. The present invention includes kits for determining the presence or absence of a SNP, using the includes kits for determining the presence or absence of a SNP, using the oligomucleotides are useful for genotyping a nucleic acid sample by performing a single-nucleotide primer extension reaction. The cligonucleotides are useful for determining the presence, absence or oligonucleotides are useful for determining the presence, absence or cleantity of a SNP and for genotyping nucleic acid sample by performing a single-nucleotide primer extension reaction. The cligonucleotides are useful for determining the presence, absence or cleantity of a SNP and for genotyping nucleic acid samples, for e.g. to assess by association analysis the genotypic of an individual or group of individuals, having a pathological phenotypic trait suspected of being caused by one or more SNPs. Phenotypic traits include disease e.g. caused by one or more SNPs. Phenotypic traits include disease.

Caused by one or more SNPs. Phenotypic traits include disease e.g. osteogenesis imperfecta and acute intermittent porphyria. Phenotypic craits also include symptoms of or susceptibility to multifactorial disease of which a component is or may be genetic such as autoimmune diseases, including, rheumatoid arthritis, multiple solerosis, microorganism. The method is also useful in forensic investigations and microorganism. The method is also useful in forensic investigations and paternity analysis. The present sequence represents a PCR primer specific for a human SNP containing DNA sequence
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                                                                                                                                                   Single nucleotide polymorphism; SNP; single nucleotide primer extension; SNPE; genotyping; agammaglobulinaemia; diabetes insipidus; cancer; lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia; polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; acute intermittent porphyria; rheumacoid arthritis; multiple sclerosis; inflammation; forensic investigation; paternity analysis; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New genotyping oligonucleotide, useful for detecting the presence, absence or identity of single polymucleotide polymorphism in a nucleic
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88.2%; Pred. No. 9e+02;
ve 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 6 A; 5 C; 6 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-OCT-2000; 2000WO-US028436.
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Best Local Similarity 88.2
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                             WO200129262-A2
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                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          acid sample.
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caddaagiricccidcr

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Gaps

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Conservative

Local Similarity ses 15; Conserv

Best Loca Matches

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375 GGCTTCAGCCACGTCCT 17 decricascoascreer

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Probes AAFS5160-76 were used to identify a human hypocretin (orexin) receptor 1 (HCRTR1) gene. The HCRTR1 gene is present on chromosome 1, location 1pp3. It is likely that a mutation in the HCRTR1 gene is associated with narcoleps. HCRTR1 is a central nervous system modulator. The HCRTR1 polypeptide and polynucleotide are useful for diagnosing or treating narcolepsy in an individual. The HCRTR1 polynucleotide is a source of probes and primers, and is also used to produce the protein recombinantly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human, single nucleotide polymorphic; SNP; forensic science; paternity testing; phenotypic trait; genetic mapping; animal breeding; plant breeding; ds.
                                                                                                                                                                                                                                                                                                               Novel isolated nucleic acid molecule encoding hypocretin (orexin) receptor 1 useful for treating and diagnosing narcolepsy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /*tag= a
/standard_name= "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%; Score 13.8; DB 1; Length 21;
88.2%; Pred. No. 9e+02;
ative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human polymorphic oligonucleotide AC005336 fragment #5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 21 BP; 6 A; 2 C; 8 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 20; 44pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1480 ATCCACAAACTTCCTGA 1496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAH89038 standard; DNA; 21 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  replace (11,t)
                                                                                                           22-AUG-2000; 2000WO-US022986.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-NOV-2000; 2000WO-US030766.
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                                                                                                                                             23-AUG-1999; 99US-00379083.
07-JAN-2000; 2000US-00479128.
                                                                                                                                                                                                     (DECO-) DECODE GENETICS EHF.
                                                                                                                                                                                                                                         Gulcher J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17 AGCCTCAAACTTCCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GLAX ) GLAXO GROUP LTD. (AFFY-) AFFYMETRIX INC.
                                                                                                                                                                                                                                                                             WPI; 2001-211306/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                         Olafsdottir BR,
                                   WO200114555-A1
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Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-MAY-2001.
                                                                       01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Key
Variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAH89038;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to a purified and isolated non-naturally occurring DNA ligands to basic fibroblast growth factor (bFGF). The ligands are useful as part of gene therapy treatments and for diagnosing pathogenesis of vascular diseases including initiation and progression of atherosclerosis, acute coronary syndromes, vein graft disease and restenosis following coronary andioplasty. The ligands have improved
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human, hypocretin receptor 1; orexin receptor 1; HCRTR1; chromosome 1; 1p33; central nervous system modulator; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel nucleic acid ligands to basic fibroblast growth factor that are useful as inhibitors of basic fibroblast growth factors and 2'-amino modified RNA ligands, exhibit increased in vivo stability.
                                                                                                                                                                                                                   Ligand; basic fibroblast growth factor; bFGF; gene therapy; vascular; atherosclerosis; angioplasty; stability; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Probe used to identify human hypocretin (orexin) receptor 1 gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 3 A; 4 C; 5 G; 2 T; 0 U; 7 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; Col 69-75; 153pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCGCGGCTCTGAGGTTGCTCG 104
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92US-00973333.
94US-00195005.
94US-00219012.
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AAF55160 standard; DNA; 21 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gold L, Tasset D;
                                                                                                                                                                                                                                                                                                                                                                                           96US-00687421
                                                                                                                                                                                                                                                                                                                                                                                                                                 90US-00536428
                                                                     AAF70928 standard; DNA; 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (NEXS-) NEXSTAR PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI, 2001-158583/16
                                                                                                                                                                                   bFGF DNA ligand #61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  stability in vivo
                                                                                                                                                                                                                                                                                                                                                                                                                             11-JUN-1990;
10-JUN-1991;
06-NOV-1992;
10-FEB-1994;
                                                                                                                                                                                                                                                                             Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                           05-AUG-1996;
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                                                                                                                                             20-APR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAF55160;
                                                                                                         AAF70928;
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                                 RESULT 1172
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AAF55160,

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Gaps

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schultz621-3.rng

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Gaps

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Indels

Score 13,8; DB 1; Pred. No. 9e+02; 3; Mismatches 2;

3; 882

Conservative

Local Similarity see 12; Conserv

Best Loc Matches

Query Match

0.8%;

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866 AGCAGTACCTGGATGAC | |||:|| :|||:|||
5 ACCAGUACAUGGAUGAC ABA91520 standard; DNA; 21 BP

23-APR-2002 (first entry)

HPV; genotyping; nucleic acid detection; probe; DNA probe for human papilloma virus genotyping.

Human papillomavirus.

WO200206531-A2.

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Gaps

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24-JAN-2002.

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The present invention relates to human oligonucleotides comprising a single nucleotide polymorphic site (SNP: AAH88797-AAH89219). The present sequence is one such oligonucleotide. The oligonucleotides can be used in forensics, paternity testing, correlation of polymorphisms with phenotypic traits, genetic mapping of phenotypic traits and marker assisted breeding of animals and crop plants
                                                New polymorphic sites derived from the human genome are useful to determine sites correlating with phenotypic traits, particularly disease, and also in forensics and paternity testing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Selenoprotein; HIV; Ebola virus; cancer; immune system disorder; ss.
                                                                                                                                                                                                                                                          0.8%; Score 13.8; DB 1; Length 21; 88.2%; Pred. No. 9e+02; rive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                 Sequence 21 BP; 4 A; 9 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ramanathan CS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GEORGIA RES FOUND INC.
Thomas D;
                                                                                                          Claim 71; Page 12; 43pp; English.
                                                                                                                                                                                                                                                                                                                       TGGTGCCCCTGAGCAGA 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Simian immunodeficiency virus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Faylor EW, Nadimpalli RG,
                                                                                                                                                                                                                                                                                                                                                                                                                     ABA01349 standard; RNA; 21
                                                                                                                                                                                                                                                                            Local Similarity 88.2
hes 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      YMDD oligonucleotide #9.
 Chen J, Patil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4PI; 2002-024734/03
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01-SEP-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JS6303295-B1
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                                                                                                                                                                                                                                                                                                                       198
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABA01349;
                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                           RESULT 1175
ABA01349
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Matches
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The present sequence comprises a probe for human papillomavirus (HPV)

C genotyping that was used in an example of the use of hairpin probes in

C mucleic acid hybridisation analysis. The probe sequence is present within

the 5' stem portion of an RNA-DNA probe (see ABA91521) that is capable of

C forming a hairpin structure. The DNA portion of the hairpin probe

c includes methylphosphorates. The hairpin probe is immobilised onto a

membrane by BSA conjugation and the resulting probe-containing strip is

c contacted with HPV genomic DNA. After hybridised probe with RNA-DNA

structure. A second hybridisation is then performed using biotin-labelled

c probes, which are complementary to the portions of immobilised probe that

c probes, which extraptaridin-horseradish percoxidase conjugate

c become single-stranded after hybridisation and digestion. Biotin in the

chemiluminescence. This is an example of the use of hairpin probes that

c are capable of both intramolecular and internolecular hybridisation and

c in which the nucleotide sequence that is complementary to the target

c hairpin probe. The use of such probes reduces background hybridisation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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88.2%; Pred. No. 9e+02;
.ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 21 BP; 6 A; 8 C; 1 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 44; 72pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1677 CCCCAACTACATCTTCC 1693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          improving specificity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
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Probes for detecting target nucleotide sequence in sample, has sequence that forms hairpin structure having a double-stranded segment and singlestranded loop collectively forming region complementary to target

(GENE-) APPLIED GENE TECHNOLOGIES INC.

WPI; 2002-171819/22.

sequence.

Dattagupta N;

12-JUL-2001; 2001WO-US022166. 14-JUL-2000; 2000US-00616761 30-MAR-2001; 2001US-00823647 ö

The present invention relates to selenoproteins encoded in the genome of a virus, where the coding sequence of the selenoprotein is genetically engineered for expression in a nucleic acid construct. The invention also discloses a method for identifying selenoprotein coding sequences, for detecting certain viruses (e.g. HIV or Ebola), cancer and immune system disorders. The present sequence was used to illustrate the invention

Sequence 21 BP; 7 A; 4 C; 4 G; 0 T; 6 U; 0 Other;

New selenoprotein for use in detecting certain viruses, e.g. human immunodeficiency virus (HIV) or Ebola, cancer and immune system

Disclosure, Col 69-70; 140pp; English

disorders

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Human; single nucleotide polymorphism; SNP; sickle cell anaemia; agammaglobulinaemia; diabetes insipidus; Lesch-Nyhan syndrome; muscular dystrophy; Miskott-Aldrich syndrome; Fabry's disease; familial hypercholesterolaemia; polycystic kidney disease; cancer; hereditary spherocytosis; Von Willebrand's disease; tuberous sclerosis; hereditary haemorrhagic telangiectasia; familial colonic polyposis; Ehers-banlos syndrome; osteogenesis imperfects, autoimmune disease; acute intermittent porphyria; inflammation; nervous system disorder; infection; rheumatoid arthritis; multiple sclerosis; diabetes; systemic lupus erythematosus; Graves disease; longevity; obesity; baldness; fertility; forensic; paternity testing; ss.
                                                                                                                    Human single nucleotide polymorphism #97.
                                                   ABK65477 standard; DNA; 21 BP
CCGTACTACATCTTCC 20
                                                                                                                                                                                                                                                                                                                                           18-JAN-2001; 2001US-00765081.
                                                                                              02-JUL-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                    CARG/) CARGILL M.
IREL/) IRELAND J S.
LAND/) LANDER E S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     VPI; 2002-315108/35
                                                                                                                                                                                                                                                                                                US2002037508-A1.
                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                      8-MAR-2002
                                                                          ABK65477;
                               RESULT 1177
                                           ABK6547
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Nucleic acid comprising single nucleotide polymorphisms, useful in forensics, paternity testing and diagnosis of disease. Cargill M, Ireland JS, Lander ES; Claim 1; Page 46; 96pp; English. 19-JAN-2000; 2000US-0176861P.

The invention relates to a nucleic acid comprising single nucleotide polymorphisms (SNPs) associated with diseases. The nucleic acids comprising the SNPs and probes and primers for detecting them may be used in assays for the diagnosis of diseases associated with SNPs (such as sickle cell anaemia, agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Miskott-Aldrich syndrom, Fabry's disease, amilial hyperoflosiserolaemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary spherocytosis telangiectesia, familial colonic polyposis, Ehrers-Danlos syndrome, osteogenesis imperfecta, and acute intermittent porphyria, syndrome of, or susceptibility to, multifactorial diseases of which a component is or may be genetic, such as autoimmune diseases of which a component is or may be genetic, such as autoimmune diseases of the component is or may be genetic, such as autoimmune diseases including rheumation, anterior, diseases of the rervous system, and incertion by pathogenic microorganisms, autoimmune diseases including rheumation arthritis, multiple sclerosis, diabetes (insulin-dependent) systemic lupus erythematous and graves disease, cancers including cancers of the bladder, brain, breast, colon, oesophagus, kidney, leukaemia, liver, lung, oral cavity, ovary, pancreas, prostate, skin, stomedo and uterus, longevity, appearance (e.g., baldmess, skin, stomedo and uterus, longevity, appearance (e.g., baldmess, skin, stomedo and uterus, longevity, appearance (e.g., baldmess, and pateriorial drugs or therapeutic treatments), in forensics and in paterinity testing, ABSK6581-ABK65841 represent human single

Sequence 21 BP; 4 A; 4 C; 4 G; 8 T; 0 U; 1 Other;

nucleotide polymorphisms of the invention

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                                                                                                                                                                                                                                                                                                                                                             Aminopeptidase P; XPNEP2; bradykinin receptor B1; ds; BDKB1; tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; kallkrein 1; XRT1; bradykinin receptor B2; BDKRB2; gene therapy and addykinin receptor B2; BDKRB2; gene therapy in angiotensin converting enzyme 2; ACB2; protease inhibitor 4; P14; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma; cardiovascular disease; angina pectoris; hypertension; heart failure; myocardal infarction; ventricular hypertrophy; vascular disease; angioedaema; arteriosclerosis; thrombosis; coronary artery disease; angioedaema; autoimmune disease; inflammatory arthritis; cancer; wound; viral infection; bacterial infection; fungal infection; COPD; chronic obstructive pulmonary disease; enterocolitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to an isolated nucleic acid from a human gene encoding aminopeptidase P (XPNEP2), bradykinin receptor B1 (BDKB1), tachykinin receptor B1 (TACR1), C1 esterase inhibitor (C1NH), kallikrein (KAK1), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme 2 (ACE2) or protease inhibitor 4 (P14), comprising at least one polymorphic position. Also included are (1) a probe that hybridises to a polymorphic position as provided in the detailed summary of single nucleotide polymorphisms comprising additional 5' and 3' flanking genomic sequence; (2) analysing (M1) at least one nucleic acid sample comprising obtaining the sample from one or more individuals and determining the mucleic acid sequence at one or more polymorphic positions in a gene encoding a protein selected from the group above; (3) constructing (M2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    useful
                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated nucleic acid with at least one polymorphic position, use for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Perrone MH;
                                         Indels
Score 13.8; DB 1; Length
Pred. No. 9e+02;
1; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ma-Edmonds M,
                                                                                                                                                                                                                                                                                                                                Human polymorphism associated DNA sequence #445.
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                                                                              767 TCAAGGACCTCAAACACGC 785
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                                                                                                     TCAAAGATGTYAAACACGC 3
                                                                                                                                                                                                              ABS60808 standard; DNA; 21 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-DEC-2000; 2000US-0251015P.
23-JAN-2001; 2001US-0263678P.
02-MAR-2001; 2001US-0273037P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-DEC-2001; 2001WO-US047235.
    Query Match
Best Local Similarity 78.9%;
Matches 15; Conservative
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Swanson BN, Powell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                autoimmune diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200261131-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-AUG-2002,
                                                                                                                                                                                                                                                        ABS60808;
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haplotypes using the genes comprising grouping at least two nucleic acids (4) identifying (M3) an individual at risk of developing a disorder upon administration of an ACE inhibitor and/or vasopeptidase inhibitor using the polymorphic data; (5) a library of nucleic acids, each of which comprises one or more polymorphic positions within a gene encoding a human protein selected from the group above; and (6) genotyping (M4) an individual comprising obtaining a nucleic acid sample, determining the nucleotide present in at least one polymorphic position, and comparing at least one position with a known data set. The genes, (M1, M2, M3 and M4) and compositions are useful for detecting, disgnosing, treating, preventing various disorders such as angloedaema and diseases which involve anglogenesis like haemangiomas, tumours, sarcomas, Crohn's involve anglogenesis like haemangiomas, tumours, arcomas, Crohn's diseases, trachomas, and cardiovascular diseases like angina pectoris, hypertension, heart failure, myocardial infarction, ventricular hypertension, heart failure, myocardial infarction, ventricular hypertension, heart failure, myocardial infarction, ventricular hypersensitivity reactions, sepsis, autoimmune diseases, inflammatory artery disease, ancer, wounds, viral, bacterial or fungal infaction, Chronic obstructive pulmonary disease (COPD) and enterocolitis (many other diseases and disorders are listed in the specification). The polymucleotides are also useful for chromosome identification Antibodies and biological samples. The present sequence is included in the sequence and biological samples. The present sequence is inthe specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Aminopeptidase P; XPNEP2; bradykinin receptor B1; ds; BDKRB1; tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; kallikrein 1; KLK1; bradykinin receptor B2; BDKRB2; gene therapy; angiotensin converting enzyme 2; ACR2; protease inhibitor 4; P14; polymorphism, haemandioma; tumour; sarcoma; Crohn's disease; trachoma; cardiovascular disease; angina pectoris; hypertension; heart failure; myocardal infarction; ventricular hypertrophy; vascular disease; ansurysm; embolism; thrombosis; coronary artery disease; angioedaema; arteriosclerosis; atherosclerosis; hypersensitivit; sepsis; autoimmune disease; inflammatory arthritis; cancer; wound; viral infection; bacterial infection; fungal diffection; COPD; chronic obstructive pulmonary disease; enterocolitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 13.8; DB 1; Length 21;
Pred. No. 9e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Seguence 21 BP; 6 A; 5 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human polymorphism associated DNA sequence #332.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (BRIM ) BRISTOL-MYERS SQUIBB CO. (TSUC/) TSUCHIHASHI Z.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              915 ACTGTTCCTGTTCCAGC 931
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23-JAN-2001; 2001US-0263678P.
02-MAR-2001; 2001US-0273037P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABS60583 standard; DNA; 21 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               )3-DEC-2001; 2001WO-US047235
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Best Local Similarity 88.24
...-hes 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200261131-A2.
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Gaps .. 0

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The invention relates to an isolated nucleic acid from a human gene encoding aminopeptidase P (KPNBP2), bradykinin receptor B1 (TACR1), C1 esterase inhibitor (CINH), kallikrein techykinin receptor B1 (TACR1), C1 esterase inhibitor (CINH), kallikrein (CC 1 (KLK1), bradykinin receptor B2 (TACR2), angiotensin converting enzyme 2 (ACR2) or protease inhibitor 4 (F14), comprising at least one copolymorphic position. Also included are (1) a probe that hybridises to a polymorphic position. Also included are (1) a probe that hybridises to a colymorphic position as provided in the detailed summary of single nucleotide polymorphisms comprising additionals and 3' flanking genomic sequence; (2) analysing (M1) at least one nucleic acid sample comprising control of analysing (M1) at least one nucleic acid sample comprising control of analysing (M3) an individual at risk of developing a disorder (1) apploxypes using the genes comprising grouping at least two nucleic acids confinistration of an ACB inhibitor and/or vasopeptidase inhibitor using the polymorphic data; (5) a library of nucleic acids, each of which comprises one or more polymorphic positions within a gene encoding a comprise or more polymorphic positions within a gene encoding a comprise or more polymorphic positions within a gene encoding a comprise or more polymorphic positions within a gene encoding or nucleotide present in at least one polymorphic position, and comparing (CC nucleotide present in at least one polymorphic position, and comparing the sent of preventing various disorders such as angloedaema and diseases which conventing various disorders such as angloedaema and diseases, trachomas, and cardiovascular diseases, involve, various diseases, neutrysm, embolism, thrombosis, cronary cartery disease, arterioeners and cardiovascular diseases, neutring, viral, bacterial or fungal infection, coherturing viral, bacterial or fungal conventing viral, and diseases and diseases in the proportical or convention. The provise and diseases and diseases and diseases a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polymucleotides are also useful for chromosome identification. Antibodies against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is included in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                       New isolated nucleic acid with at least one polymorphic position, us for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                listing but is not referred to anywhere else in the specification
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                                          Perrone MH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.8%; Score 13.8; DB 1; Length 21;
88.2%; Pred. No. 9e+02;
ative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21 BP; 6 A; 5 C; 6 G; 4 T; 0 U; 0 Other;
                                          Ma-Edmonds M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human polymorphism associated DNA sequence #331.
                                                                                                                                                                                                                                                                                   Disclosure; Page 809; 977pp; English.
                                          Zerba KE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           915 ACTGTTCCTGTTCCAGC 931
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                                          Fauchihashi Z, Hui L,
Swanson BN, Powell JR;
                                                                                                               WPI; 2002-619265/66.
                                                                                                                                                                                                                                   autoimmune diseases.
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Best Local Similarity
(HUIL/) HUI L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15;
                                                                      Swanson BN,
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ABS60582/c
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tachykinin receptor B1, TACR1, C1 esterase inhibitor; C1NH; kallikrein 1, KLK1; bradykinin receptor B2; BDKB2; gene therapy; angiotensin converting enzyme 2; ACE2; protease inhibitor 4; P14; polymorphism, haemangioma; tumour; sarcoma; Crohn's disease; trachoma; cardiovascular disease; angina pectoris; hypertension; heart failure; myocardial infarction; ventricular hypertrophy; vascular disease; angioedaema; arteriosclerosis; anherosclarosis; coronary artery disease; angioedaema; arteriosclerosis; anherosclarosis; hypersensitivity; sepsis; autoimmune disease; inflammatory arthritis; cancer; wound; viral infection; bacterial infection; fungal infection; COPD; Chronic obstructive pulmonary disease; enterocolitis. Zerba KE, Ma-Edmonds M, Perrone MH; Disclosure; Page 809; 977pp; English. (BRIM ) BRISTOL-MYERS SQUIBB CO. (TSUC/) ISUCHIHASHI Z. 23-JAN-2001; 2001US-0263678P. 02-MAR-2001; 2001US-0273037P. 03-DEC-2001; 2001WO-US047235. 04-DEC-2000; 2000US-0251015P. Z, Hui L, Powell JR; WPI; 2002-619265/66. autoimmune diseases. WO200261131-A2. (HUIL/) HUI L. Tsuchihashi Z, Homo sapiens. Swanson BN, 08-AUG-2002

The invention relates to an isolated nucleic acid from a human gene encoding aminopeptidase P (XPNEP2), bradykinin receptor B1 (BDXRB1), cleatezase inhibitor (CNH), kallikrein tachykinin receptor B2 (BDXRB2), angiotensin converting enzyme (KLKA), bradykinin receptor B2 (BDXRB2), angiotensin converting enzyme 2 (ACE2) or protease inhibitor 4 (P14), comprising at least one properties of polymorphic position. Also included are (1) a probe that hybridises to a polymorphic position as provided in the detailed summary of single nucleotide polymorphisms comprising additionals and 3' flanking genomic sequence; (2) analysing (M1) at least one nucleic acid sample from one or more polymorphic positions in a gene nucleic acid sequence at one or more polymorphic positions in a gene condition a protein selected from the group above; (3) constructing (M2) haplotypes using the genes comprising grouping at least two nucleic acid sequence; (2) analysing (M3) an individual at risk of developing a disorder using the polymorphic positions within a gene encoding a comprises one or more polymorphic positions within a gene acids, each of which human protein selected from the group above; and (6) genotyping (M4) an individual compraining a nucleic acid sample, determining the least one position with a known data set. The genes, (M1, M2, M3 and M4) and compositions are useful for detecting, diagnosing, treating, and compositions are useful for detecting, diagnosing, treating, and compositions are useful for detecting, and compositions are useful for detecting, associated and disease which and compositions, and compositions, and compositions, and compositions, and cangosition with a known data set. The genes, (M1, M2, M3 and M4) and composition, heart failure, myocardial infarction, ventricular hypertrophy, vascular diseases, and cardiovascular diseases like anging pertoris, hypertrophy, vascular diseases, and cardiovascular manalymorphic position, thrombosis, archomas, sepase (COPD) and energocilis (COPD) and entercoclists). The polymuc New isolated nucleic acid with at least one polymorphic position, useful for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and

The invention relates to a novel human antibody (I), preferably a human monoclonal antibody which binds to an activation inducible lymphocyte immunomodulatory molecule (ALINM). (I) is useful for modulating signal transduction into a cell mediated by ALILM, for modulating proliferation of ALIM-expressing cells, for modulating production of a cytokine from ALIM-expressing cells, and for inducing antibody-dependent cytotoxicity against ALIM-expressing cells and/or immune cytolysis or apoptosis of ALIM-expressing cells and/or immune cytolysis or apoptosis of ALIM-expressing cells. (I) is useful for treating, preventing or prophylaxis of delayed type allergy. (I) is useful for treating and preventing various diseases associated with ALIM-mediated costimulatory transduction, and for inhibiting the onset and/or advancement of the diseases. (I) is useful for suppression, prevention and/or treatment of

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against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is included in the sequence listing but is not referred to anywhere else in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human, antirheumatic; antiarthritic; antidiabetic; antipsoriatic; antiallergic; antiulcer; neuroprotective; antithyroid; vasorropic; immunosuppressive; dermatological, antiinfiammatory; hepatorropic; activation inducible lymphocyte immunomodulatory molecule; AILIM; monoclonal antibody; allergy; rheumatoid arthritis; diabetes mellitus; multiple sclerosis; autoimmune thyroiditis; psoriasis; hepatitis; systemic lupus erythematis; chronic inflammatory dermatosis; systemic lupus erythematis; autoimmune disorder; inflammation; graft versus host reaction; immune disorder; inflammation; pcRR versus colitis; pneumonia; nephritis; vasculitis; pancreatitis;
                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                  .
0
                                                                                                                                                                                       Query Match

0.8%; Score 13.8; DB 1; Length 21;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Anti-human AILIM monoclonal antibody, sequencing primer #2.
                                                                                                                           Sequence 21 BP; 6 A; 5 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 10; Page 247; 300pp; English.
                                                                                                                                                                                                                                                                                                                          915 ACTGTTCCTGTTCCAGC 931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAS99452 standard; DNA; 21 BP.
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30-MAR-2001; 2001JP-00099508.
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Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-NOV-2001.
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Gaps

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Score 13.8; DB 1; Length 21; Pred. No. 9e+02; ); Mismatches 2; Indels

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0.8%;

Query Match
Best Local Similarity 88.27
Marches 15; Conservative

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sequence is used to illustrate the method of the invention

Sequence 21 BP; 4 A; 5 C; 8 G; 4 T; 0 U; 0 Other;

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The invention relates to an immunogenic composition of mycobacterial mutants with modified protein production capabilities. The invention also relates to methods for the treatment and prevention of infectious diseases. The methods and compositions of the invention are useful for such as tuberculosis and Crohn's disease. The invention is also used in such as tuberculosis and Crohn's disease. The invention is also used in gene therapy. The present sequence is a PCR primer used for amplifying Mycobacterium sp. hsp70 (heat shock protein 70) operon promoter. This
                                                                                                                                                                                                                                                                                                                                                                                                                  disease.
                              1182
                                         AAD45724
                              RESULT
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rheumatoid arthritis, multiple sclerosis, autoimmune thyroiditis, allergic contact-type dermatiis, chronic inflammatory dermatosis, systemic luque srythematosus, insulin-dependent diabetes mellitus, postiasis, autoimmune or allergic disorders, inflammation, graft versus host reaction, graft versus host reaction, graft versus host disorders immune rejection, disorders intestinal intestinal intestinal intestinal intestinal intestinal pancreative colitis, pneumonia, hepatitis, nepatitis, and pancreatitis. (I) induces no serious immunorejection due to antigenicity to human, i.e., human anti-mouse antigenicity (HANA) in a host. AASS9444-AASS9477 represent anti-human ALLIM monoclonal antibody coding sequences and PCR primers of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immunogenic composition of mycobacterial mutants with modified protein production capabilities, useful for vaccinating and treating infections in particular mycobacterial diseases such as tuberculosis and Crohn's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Immunogenic; infection; vaccine; mycobacterial disease; tuberculosis;
Crohn's disease; gene therapy; antiinflammatory; antibacterial; hsp70;
heat shock protein 70; PCR; primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                               2; Indels
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Pred. No. 9e+02
0; Mismatches
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Best Local Similarity 88.2%;
Matches 15; Conservative
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29-MAY-2001; 2001US-0294170P.
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(YOUN/) YOUNG D B.
(STEW/) STEWART G R.
(OGAO/) O'GAORA P C B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-698637/75.
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                                                                                                                                                                                                                                                                                          invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAD45724;
        88888888888888888
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Human; methylated gene, methylation; breast cancer; marker; WT-1; cell proliferative disorder; TWIST; HOXA5; NES-1; RARbeta; cyclin D2; retinoic acid receptor beta; oestrogen receptor; Wilms' tumour; 14.3.3 sigma; HIN-1; RASSFIA; tumour suppressor gene; hypermethylation;

PCR; primer; ss

WO200259347-A2. Homo sapiens

01-AUG-2002.

Cyclin 14-3-3 sigma gene PCR primer #7.

(first entry)

07-NOV-2002

ABT06423;

ABT06423 standard; DNA; 21

RESULT 11 ABT06423/

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The present invention relates to a method of diagnosing a cellular proliferative disorder of breast tissue, which involves determining the state of methylation of one or more nucleic acids isolated from the subject, where the state of methylation of the nucleic acids as compared with a state of methylation from a subject not having the cellular proliferative disorder of breast tissue is indicative of a cellular proliferative disorder of breast tissue is indicative of a cellular may be TWIST, HOXAS, NES-1, retinoid, acid receptor beta (RARbeta), oestrogen receptor, cyclin D2, Wilms' tumour gene (WT-1), 14.3.3 sigma, HN-10 r RASSFA. The method is useful for diagnosing and/or determining a predisposition to a cellular proliferative disorder, in particular breast cancer including ductal carcinoma in situ, lobular carcinoma, colloid carcinoma, tubular carcinoma, medullary carcinoma, metaplastic carcinoma, intraductal carcinoma, medullary carcinoma in situ and papillary carcinoma in situ. The present sequence is a primer used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       proliferative disorder of breast tissue, in particular breast cancer, by determining the state of methylation of one or more nucleic acids isolated from the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Davidson N, Fackler MJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Diagnosing and/or determining a predisposition to a cellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21 BP; 3 A; 10 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dooley WC, Sacchi N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 12; Page 44; 115pp; English.
                                                                                                                                                                                                                                                                                                                                                                              28-JAN-2002; 2002WO-US002455
                                                                                                                                                                                                                                                                                                                                                                                                                  26-JAN-2001; 2001US-00771357
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DB 1; Length 21;

Score 13.8; DB : Pred. No. 9e+02;

0.8%;

Query Match Best Local Similarity

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Human, ds; cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1;

Cytochrome P450 A2; CYP4501A1; CYP4501A1;

Cytochrome P450 A2; CYP4501A2; CYP6501A1;

Cytochrome P450 A2; CYP4501A2;

Cytochrome P450 A2; CYP4501A2;

Cytochrome P450 A2;

Cytochrome P
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0
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Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABS97470 standard; DNA; 21
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15; Conservative
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Matches
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This invention relates to the sequence of an isolated nucleic acid molecule comprising at least one base variation from that of a known molecule comprising at least one base variation from that of a known wolecule comprising at least one base variation from that of a known them cytochrome P450 A1 (CYP4501A1), adrenergic receptor beta1 (ADDR1), cytochrome P450 02E1 (CYP4501A2), adrenergic receptor beta1 (ADDR1), aryl hydrocarbon receptor nuclear translocator (ARNT), cathepsin 8 (CYS2), cytochromes 2 (EPK2), 5-lipoxygenase activating inhibitor (DB1), epoxide hydroxylase 2 (EPK2), 5-lipoxygenase activating protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl transferase (HNWT), NADPH quinone oxidoreductase 2 (NQO2), cransferase (HNWT), NADPH quinone oxidoreductase 2 (NQO2), cransferase (HWT), NADPH quinone oxidoreductase 2 (NQO2), transferase 2B4 (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl transferase (UGT2B1), urokinase receptor (UPA), multidrug resistance 1 (MDR1), lactotransferzin (UTF), unltidrug resistance associated protein 3 (MRP3), orphan nuclear receptor (NRII2), or acetylcholine muscarinic Isolated nucleic acid molecules having polymorphisms in known human genes e.g. cyrcokrome p450 and cathepain S useful as genetic linkage markers for locating, identifying and characterizing the genes responsible for disorder-related traits. Example 9; Page 115; 714pp; English. 28-NOV-2000; 2000US-00724389. (DNAS-) DNA SCI LAB WPI; 2002-698522/75. Guida M, Hall J; 

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The polymorphisms in the human genes cited in the invention are useful as genetic linkage markers for locating and characterising the genes that are responsible for specific traits within the genome and evantually identifying the genes responsible for a variety of disorder-related traits as a result of their e.g., overexpression, constitutive capression, mutation or underexpression, which may be used in diagnosing and/or treating the disorders. The nucleic acid molecules comprising the polymorphic sequences contained in CYP4501A1, CYP4501B1, ARNY, BEHZ, GST12, NNMY, NQC2, NR.12, STW, UGT2B4, UGT2B5, AHR, MDR1 and/or MDR3 may also be screening individuals for altered drug metabolism. The polymorphic sequences contained in CYP4501A1, CYP4501A2, AHR, MDR1 and/or MDR3 may also be used to screen individuals for altered central eusect to screen for altered cardiovaccular function, in COX2 for altered central nervous system function, in FLAP and HNNM for altered pulmonary, immunological or haematological function, in FLAP and HNNM for altered serine function, in FLAP and HNNM for altered central and mannal parameter of the present sequence represents a peripheral nervous system function. The present sequence represents a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 13.8; DB 1; Length 21;
Pred. No. 9e+02;
0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polymorphic DNA sequence of the invention
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Best Local Similarity, 88.2%;
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New recombinant dimethyl sulfide:acceptor oxidoreductase or its subunits, useful for oxidizing prochiral organic sulfides to form sulfoxide enantiomers for chiral drug synthesis. DMS:acceptor oxidoreductase; dimethyl sulphide; sulphoxide; prochiral organic sulphide; sulphoxide enantiomer; chiral drug production; optically-active functional drug; ss. Claim 15; Page 46; 66pp; English. 21-AUG-2000; 2000AU-00009559. 21-AUG-2001; 2001WO-AU001033. Rhodovulum sulfidophilum. Mcewan AG; (UYQU ) UNIV QUEENSLAND. WPI; 2002-280922/32. WO200216570-A1. Mcdevitt CA, 28-FEB-2002. CCCXSXALLEXBXBXAXAXAXAXXXXXXXAXALEXXXXX

DMS:acceptor oxidoreductase, PCR primer #29.

(first entry)

05-JUN-2002

ABK53783;

ABK53783 standard; DNA; 21

1185

ABK53783

The invention relates to a recombinant dimethyl sulphide (DMS):acceptor oxidoreductase (I) or its subunit selected from recombinant alpha, beta, delta and gamma subunits. (I) is useful for oxidising prochiral organic

Brinkmann U, Hoffmeyer S; ABK94356 standard; DNA; 21 (first entry) Conservative WPI; 2002-435060/46. Local Similarity es 15; Conser WO200224747-A2 27-AUG-2002 28-MAR-2002 Synthetic 21 ABK94356; Query Match disease. Best Loca Matches ABK94356 ઠે 셤

The invention describes a polymuclectide (I) of the endothelin (EDN)/endothelin converting enzyme (ECE)/receptors of EDN and ECE (EDNR) signaling system which is associated with a cardiovascular disease. (I), the gene encoding EDN, ECE or EDNR (II) or a vector (III) expressing (I) or (III) is useful for producing cells capable of expressing a molecular variant polypeptide which is associated with a cardiovascular disease. (II), (III), the EDN, ECE or EDNR polypeptide, or a cardiovascular disease molecular variant gene comprising (I) is useful for identifying and obtaining a pro-drug or drug capable of modulating the activity of a molecular variant of a polypeptide of the EDN/EDNR/ECE signaling system or its gene product, or for identifying and obtaining an inhibitor of the activity of a molecular variant of a polypeptide of the EDN/EDNR/ECE ö Novel polynucleotide of the endothelin/endothelin converting enzyme signaling enzyme endothelin and endothelin converting enzyme signaling system associated with cardiovascular disease, useful for treating the sulphides to form sulphoxide enantiomers for chiral drug synthesis. (I) is expressed in a transformed bacterium. The enantiomer formed is useful active producting a chiral drug. (I) is useful for synthesis of optically-active functional groups of drug. DNA encoding (I) is useful for producing a strain of DMS: acceptor oxidoreductase-deficient Rhodovulum sulfidophilum, which is useful in whole-cell reaction, where DMS:acceptor oxidoreductase activity is unwanted. ABK53751-ABK53805 represent R. sulfidophilum DMS:acceptor oxidoreductase subunit coding sequences and Endothelin; EDN; endothelin converting enzyme; ECB; endothelin receptor; EDNR; signaling system; cardiovascular disease; coronary heart disease; hypertension; atherosclerosis; andjogenesis; fatty acid metabolism; diabetes; familial hypercholesterolaemia; forensic marker; transgenic animal; solid support; cardiovascular regulator; SNP; single nucleotide polymorphism; PCR; primer; ss. Endothelin converting enzyme 1 (ECE-1) SNP detection primer #144. ô 0.8%; Score 13.8; DB 1; Length 21; 88.2%; Pred. No. 9e+02; ive 0; Mismatches 2; Indels Sequence 21 BP; 0 A; 12 C; 7 G; 2 T; 0 U; 0 Other; (EPID-) EPIDAUROS BIOTECHNOLOGIE AG. Claim 1; Page 67; 190pp; English. 241 GGCGGCAGTGACCCTGG 257 BP 31-AUG-2001; 2001WO-EP010087. 19-SEP-2000; 2000EP-00120123. decedenádos a seco de de seco de de seco de de seco de PCR primers of the invention 

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signaling system or its gene product. The isolated proteins and polynucleotides encoding them are useful for preparation of a pharmacutical composition for treating a cardiovascular disease such as coronary heart disease, hypertension, atherosclerosis, or related to abnormal angiogenesis or fatty acid metabolism e.g. diabetes and familial hypercholesterolaemia. The gene or a polynucleotide fragment of the EDN/ECE/EDNR signaling system are useful as forensic markers, for creating a transgenic animal and in creation of a solid support comprising polynucleotides, genes, vectors, polypeptides, antibodies or host cells of the invention. This sequence represents a PCR primer used to identify single nucleotide polymorphisms in DNA encoding cardiovascular regulator proteins of the EDN/ECE/EDNR signaling pathway
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention describes a polymucleotide (I) of the endothelin (EDNR)/endothelin converting enzyme (ECE)/receptors of EDN and BCE (EDNR) signaling system which is associated with a cardiovacular disease. (I), the gene encoding EDN, ECE or EDNR (II) or a vector [III] expressing (I) or (II) is useful for producing cells capable of expressing a molecular variant polypeptide which is associated with a cardiovaccular disease. (II), the EDN, ECE or EDNR polypeptide, or a cell expressing a molecular variant gane comprising (I) is useful for identifying and obtaining a pro-drug or drug capable of modulating the activity of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Endothelin; EDN; endothelin converting enzyme; ECE; endothelin receptor; EDNR; signaling system; cardiovascular disease; coronary heart disease; hypertension; atherosclerosis; angiogenesis; fatty acid metabolism; diabetes; familial hypercholesterolaemia; forensic marker; transgenic animal; solid support; cardiovascular regulator; SNP; single nucleotide polymorphism; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Endothelin converting enzyme 1 (ECE-1) SNP detection primer #143.
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                                                                                                                                                                                                                                                                                                                  0.8%; Score 13.8; DB 1; Length 21;
88.2%; Pred. No. 9e+02;
iive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                            Seguence 21 BP; 5 A; 7 C; 9 G; 0 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                         361 GGGGAGAGTGACCAGGC 377
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Best Local Similarity 88.2
Matches 15; Conservative
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molecular variant of a polypeptide of the EDN/EDNR/ECE signaling system
or its gene product, or for identifying and obtaining an inhibitor of the
activity of a molecular variant of a polypeptide of the EDN/EDNR/ECE
signaling system or its gene product. The isolated proteins and
polymucleotides encoding them are useful for preparation of a
polymuclatical composition for treating a cardiovascular disease such as
coronary heart disease, hypertension, atherosclerosis, or related to
abnormal angiogenesis or fatty acid metabolism e.g. diabetes and familial
hypertoholesterolaemia. The gene or a polymucleotide fragment of the
carding a transgenic animal and in creation of a solid support
comparising polymucleotides, genes, vectors, polypeptides, antibodies or
comparising polymucleotides, genes, vectors, polypeptides, antibodies or
comparising polymucleotide polymorphisms in DNA encoding
cardiovascular regulator proteins of the EDN/ECE/EDNR signaling pathway
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Determining an individual's risk for type 1 diabetes, comprises detecting the presence of an insulin dependent diabetes mellitus-associated interleukin 4 receptor allele in a nucleic acid sample of the individual.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; interleukin 4 receptor; IL4R; type 1; diabetes; allele; insulin dependent diabetes mellitus; IDDM; myasthenia gravis; single nucleotide polymorphism; SNP; autoimmune disease; T helper type 1 mediated disease; rheumatoid arthritis; probe; multiple sclerosis; inflammatory bowel disease; systemic sclerosis; systemic lupus erythematosus; psoriaais; scleroderma; Grave's disease; Guillain-Barre syndrome; Hashimoto's thyroiditis; se.
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                                                                                                                                                                                                                                                                                                                                                                                               2; Indels
                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 0 A; 9 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                    0.8%; Score 13.8; DB 1
88.2%; Pred. No. 9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Probe DBM0080P, identifies IL4R variant T2531.
                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGGAGAGTGACCAGGC 377
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                                                                                                                                                                                                                                                                                                                                                                          Similarity
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Best Local Simil
Matches 15; C
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Gaps ; 0

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mellitus (IDDM)-associated interleukin 4 receptor allele in a nucleic acid sample of the individual, where the presence of the allele indicates the individual's risk for type I diabetes. The method identifies one or more single nucleotide polymorphism (SNP) within the IL4R gene listed in the specification. The method and the SNP's are useful for determining an individuals risk for type I diabetes. The IL4R SNPs are also useful for determining an individuals risk for any autoimmune disease or condition or any T helper type I mediated disease, e.g. rheumatoid arthritis, multiple sclerosis, inflammatory bowel disease, systemic lupus sclerosis, myasthenia gravis, Guillain-Barre syndrome, or Hashimoto's thyroiditis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Determining an individual's risk for type 1 diabetes, comprises detecting the presence of an insulin dependent diabetes mellitus-associated interleukin 4 receptor allele in a nucleic acid sample of the individual.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The sequences given in ABQ80153-69 represent probes which were used to identify wild type and variant loci in the human interleukin 4 receptor (IL4R). These probe sequences were used in the method of the invention for determining an individual's risk for type 1 diabetes. The method comprises detecting the presence of an insulin dependent diabetes and its to the method comprises detecting the presence of an insulin dependent diabetes and its to the individual, where the presence of the allele indicates the individual's risk for type 1 diabetes. The method identifies one or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; interleukin 4 receptor; ILAR; type 1; diabetes; allele; insulin dependent diabetes mellitus; IDDM, wyasthenia gravis; single nucleotide polymorphism; SNP; autoimmune disease; T helper type 1 mediated disease; rheumatoid arthritis; probe; multiple sclerosis; inflammatory bowel disease; systemic sclerosis; eystemic lupus erythematosus; psoriasis; scleroderma; Grave's disease; guillain-Barre syndrome; Hashimoco's thyrodditis; ss.
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0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Probe DBM0080P, identifies wild type IL4R SNP #8.
                                                                                                                                                                                                                                                                                      Sequence 21 BP; 3 A; 7 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mirel DB, Erlich HA, Bugawan TL, Noble JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HOFF ) ROCHE DIAGNOSTICS GMBH. (HOFF ) HOFFMANN LA ROCHE & CO AG F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 4; Page 36; 79pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                  1175 TCTTCTATGAGATGGCC 1191
                                                                                                                                                                                                                                                                                                                                                                                                                                                             18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-JUL-2002; 2002WO-EP007956.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-JUL-2001; 2001US-0306912P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCTTCTCTGAGATGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABQ80161 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-JUN-2003 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO2003010335-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-FEB-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABQ80161;
                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1189
                                                                                                                                                                                                                                                                                                                                                      Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABQ80161
    88888888888888888
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detecting

The sequences given in ABQ80119-35 represent probes which were used to identify wild type and variant loci in the human interleukin 4 receptor (114R). These probe sequences were used in the method of the invention for determining an individual's risk for type 1 diabetes. The method comprises detecting the presence of an insulin dependent diabetes

schultz621-3.rng

Gaps

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2; Indels

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The invention relates to a novel method for detecting a point mutation in a DNA strand. The novel method comprises hybridising a target DNA strand containing or suspected of containing a point mutation with a test mucleic acid strand complementary to the DNA strand to form a target DNA strand/test nucleic acid strand duplex, contacting the duplex with an strand/test nucleic acid strand duplex, contacting the duplex with an strand/test nucleic acid strand duplex, contacting the duplex with an nucleotide sequence are cleaved by RNAse H. The method is useful for detecting a point mutation in a DNA strand, where the point mutation to be detected is a single nucleotide polymorphism, preferably a contain the method is useful to detect any nucleic acids from any species of organisms such as Acintobacter, Bacillus, Candida, any species of organisms such as Acintobacter, Bacillus, Candida, This polymucleotide sequence represents a probe relating to the mutation detecting method of the invention
more single nuclectide polymorphism (SNP) within the IL4R gene listed in the specification. The method and the SNP's are useful for determining an individual's risk for type 1 diabetes. The IL4R SNP's are also useful for determining an individual's risk for any autoimmune disease or condition or any T helper type 1 mediated disease, e.g. rheumatoid arthritis, multiple sclerosis, inflammatory bowel disease, systemic lupus exthematosus, psoriasis, scleroderma, Grave's disease, systemic sclerosis, myasthenia gravis, Guillain-Barre syndrome, or Hashimoto's thyroiditis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Detecting point mutation in DNA strand, by hybridizing target DNA strand having mutation with test DNA strand to form duplex, contacting the duplex with RNase H and determining the cleavage of test strand by RNase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hybridising; target DNA; duplex; RNase H;
                                                                                                                                                                                                                                                    DB 1; Length 21;
                                                                                                                                                                                                              Sequence 21 BP; 3 A; 7 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                  Score 13.8; DB 1
Pred. No. 9e+02;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Detecting; point mutation, hybridising; ta
single nucleotide polymorphism; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human papillomavirus probe, SEQ ID No 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 12; 26pp; English.
                                                                                                                                                                                                                                                                                                                                  1175 TCTTCTATGAGATGGCC 1191
                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP
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                                                                                                                                                                                                                                                  0.8%;
ilarity 88.2%;
Conservative C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAL53951 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Dattagupta N, Tseng T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (DATT/) DATTAGUPTA N. (TSEN/) TSENG T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human papillomavirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-102506/09
                                                                                                                                                                                                                                                                      Local Similarity
es 15; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US2002142308-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAL53951;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 1190
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Activation of potential matrix metalloprotease-2 (proMMP-2) with claudins via membrane type matrix metalloproteases (MT-MMPs).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ō
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention describes the activation of potential matrix metalloprotease-2 (proMMP-2) with claudins via membrane type matrix metalloproteases (WT-MMP). Activated proMMP-2 is useful for treatment neovascularisation and cancer. This sequence represents a potential matrix metalloprotease-2 activation associated primer. Note: This sequence is given in the specification as seq id 13.
                                                                                                                                                                                                                                                                                                vasotropic, cytostatic, potential matrix metalloprotease-2; proMMP-2; membrane type matrix metalloproteases; MT-MMP; neovascularisation; cancer; human; claudin 1; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                         Gaps
                                                                                                                                                                                                                                                                     Potential matrix metalloprotease-2 activation related primer seq id
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human stearyl coenzyme A desaturase 4 siRNA Desat3-antisense.
                        Score 13.8; DB 1; Length 21;
Pred. No. 9e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.8%; Score 13.8; DB 1; Length 21;
88.2%; Pred. No. 9e+02;
ve 0; Mismatches 2; Indels
 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 1 A; 6 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 3; SEQ ID NO 31; 49pp; Japanese.
                                                                                      1693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 453 CACTGAGGACATCAACA 469
                                                                                                               4 CCGTAACTACATCTTCC 20
                                                                                                                                                                                   BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (FUJY ) FUJI PHARM IND CO LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                             10-MAY-2001; 2001JP-00140296.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-MAY-2001; 2001JP-00140296.
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                         0.8%;
Local Similarity 88.2%;
les 15; Conservative
Sequence 21 BP; 6 A; 8 C; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (KANA-) KANAZAWA DAIGAKUCHO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     88.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CACGGAGGACATCCACA
                                                                                    1677 CCCCAACTACATCTTCC
                                                                                                                                                                         528/c
ADC51528 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADC72204 standard; RNA; 21
                                                                                                                                                                                                                                          (first entry)
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les 15; Conserv
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                                                                                                                                                                                                                                          18-DEC-2003
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                                                                                                                                                                                                                                                                                                                                                          Synthetic.
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                         Query Match
                                                                                                                                                                                                               ADC51528
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                                                                                                                                                          RESULT 1191
                                                      Matches
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Matches
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chromosome 18q11.2; SNP; single nucleotide polymorphism;

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                                                                                                                                                                                                                                                                                                                                                                                                              This invention relates to a novel method of identifying candidate p53
pathway modulating agent which comprises contacting an assay system
comprising stearyl coenzyme A desaturase (SCD) polypeptide or nucleic
agent under conditions where, but for the presence of the test agent, the
system provides a reference activity. The p53 gene is mutated agent, the
system provides a reference activity. The p53 gene is mutated in over 50
idferent types of human cancer. The human p33 protein normally functions as
a central integrator of signals including DNA damage, hypoxia, nucleotide
optivation and oncogene activation. Modulators of p53 may have
a central integrator of signals including DNA damage, hypoxia, nucleotide
optivation and oncogene activation. Modulators of p53 may have
correct activity or be useful in gene therapy. The methods of the
invention are useful for identifying modulators of p53 pathway as
therapeutic targets for disorders associated with defective p53 function,
such as anglogenic, apoptotic or cell proliferative disorders, for
cample cancer. The modulators are useful as research reagents,
cample cancer. The modulators are useful as research reagents,
that of a human Stearoyl-coA desaturase 4 sequence (see ) small
interfering RNA (siRNA) used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                      Identifying a candidate p53 pathway-modulating agent as therapeutic targets for disorders related to defective p53 function e.g. cancer by contacting an assay system having SCD polypeptide or nucleic acid, with a
            p53 pathway modulating agent; stearyl coenzyme A desaturase; SCD; p53 gene; cancer; signal integrator; DNA damage; hypoxia; nucleotide deprivation; oncogene activation; cytostatic; gene therapy; defective p53 function; angiogenic; apoptotic; cell proliferative disorder; human; small interfering RNA; siRNA; ss; Desat3-antisense.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; melanocortin 2 receptor (adrenocorticotrophic hormone); MC2R;
primer; haplotype; familial glucocorticoid deficiency; FGD; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                       Heuer TS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 13.8; DB 1; Length 21;
Pred. No. 9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4; Indels
                                                                                                                                                                                                                                                                      Francis-Lang H, Friedman L, Plowman GD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21 BP; 5 A; 6 C; 4 G; 0 T; 4 U; 2 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human MC2R gene ASO primer SEQ ID NO: 32.
                                                                                                                                                                                                                                                                                                                                                                                           Example 6; SEQ ID NO 30; 44pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1637 GGCAGCGGCTGGAGGGATGCC 1657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-FEB-2003; 2003WO-US006087.
                                                                                                                                                                                                                 01-MAR-2002; 2002US-0361196P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAL41783 Standard; DNA; 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15; Conservative
                                                                                                                                                                                                                                         EXEL-) EXELIXIS INC
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Best Local Similarity
                                                                                                                                                                                                                                                                                              WPI; 2003-748276/70.
                                                                                                                                  WO2003074662-A2
                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-APR-2002
                                                                                                                                                             12-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                 test agent
                                                                                                                                                                                                                                                                      Belvin M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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The present invention provides the gene, protein and cDNA sequences of the human melanocortin 2 receptor (adrenocorticotrophic hormone) (MC2R). Also identified are a number of single nucleotide polymorphisms (SNPs) found within the sequences. The sequences can be used to find the haplotype of the MC2R gene in an individual and to identify drugs for the reatment of cancer and familial glucocorticoid deficiency. The present sequence is an allele specific primer for the gene of the invention, which is found on chromosome 18q11.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         constituent of gag gene of HIV-1 Bru, -Mal or -Eli, HIV-
                                                                                                                                                                                                                                                                                                                                                                                                                         Melanocortin 2 receptor (MC2R) gene polymorphic variants, useful e.g. in studying the expression and function of MC2R and screening candidate drugs for treating familial glucocorticoid deficiency and cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 2 A; 4 C; 5 G; 3 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 13.6; DB 1
Pred. No. 7e+02;
1; Mismatches
                                                                                                                                                                                                                                                                                                                    Lee HH, Sausker EA;
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(INRM ) INSERM INST NAT SANTE RE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 16; Page 14; 79pp; English.
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                                                                                                                                                                                                                                                                 (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Simian immunodeficiency virus
                                                                                                                                                                                                        30-JUN-2000; 2000US-0215330P.
                                                                                                                                                       29-JUN-2001; 2001WO-US021064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    90EP-00401520
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Best Local Similarity 92.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human immunodeficiency virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              292 CGTTCTGCACGGGG 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGTTCTGCACGGGK 14
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13; Conservative
                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-171650/22.
                                                                                                                                                                                                                                                                                                                  Koshy B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MMy4B nucleotide of ROD and SIV-MAC.
                                                WO200202821-A1
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-SEP-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-JUN-1990;
                                                                                                    10-JAN-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09-JAN-2003
05-MAR-1991
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                                                                                                                                                                                                                                                                                                                  Kazemi A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ06909,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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The sequence is that of a detection step primer for use in the identification of a mutation (G -> A) in the second nuclectide of codon 12 of the N-ras gene. It corresponds to nucleotides 15 to 34 on the N-ras gene and was synthesised on an Applied Biosystems 381A DNA synthesiser. It allows the accurate determn. of changes in the N-ras gene with such efficiency and ease that large numbers of samples can be screened. See also AAQ13677-Q13689. (Updated on 25-WAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detection of specific nucleotide variations - by primer extension using a detection step primer immediately adjacent the variable nucleotide.
                                                                                                                                         This nuclectide sequence is found in posn. 1388-1369 of HIV-1 Bru, 1421-1403 of HIV-1 Mal, 1388-1369 of HIV-Eli, 1706-1687 of HIV-2 ROD and 1670-1651 of SIV-MAC. It is the anti-sense strand of a primer pair used to amplify these HIV-1, HIV-2 and SIV viral sequences, esp. in conjunction with in vitro diagnosis of in-fection. It is useful for treating viral diseases, eg. AIDS. See also AAQ06905-08 and AAQ06910-54. (Updated on 09-JAN-2003 to add missing OS field.)
                                        New nucleotide sequences derived from genome of HIV-1, HIV-2 and SIV useful as primers for amplification of immuno-deficiency viruses in diagnosis and for raising antibodies in treatment of HIV infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-ras gene codon 12 nucleotide variation detection step primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 3 A; 2 C; 10 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                     Sequence 20 BP; 2 A; 4 C; 5 G; 6 T; 0 U; 3 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 29; Page 61; 67pp; English
                                                                                                                 Claim 2; Page 18; 24pp; French
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ13687 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                        Query Match 0.8%;
Best Local Similarity 72.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                CIYTGCATRGCTGCYTGA
                                                                                                                                                                                                                                                                                                                                                                                            1703 CTCTGCCTACCTGCCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Soderlund H, Syvanen AC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ORIN ) ORION YHTYMAE OY
                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1991-281407/38.
            WPI; 1990-378039/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-FEB-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-FEB-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO9113075-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-NOV-1991
                                                                                                                                                                                                                                                                                                                                                           13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-SEP-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAQ13687;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 1195
                                                                                                                                                                                                                                                                                                                                         Best Lock
Matches
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90US-00482005 90US-00482005. 0.8%; Score 13.6; DB 1; Length 20;

Query Match

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This antisense oligonucleotide was designed to hybridise to the 3'-UTR thuman ICAM-1 mRNA. It was synthesised in the phosphorothicate form as none of the phosphodiester form-antisense oligonucleotides which were initially tested demonstrated inhibitory activity. Oligonucleotide #15 was found to be the most active of 16 potentially inhibitory anti-sense sequences. Its anti-sense activity was not shared by other oligonucleotides which hybridise to 3'-untranslated sequences. See e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New oligonucleotides hybridisable to cell adhesion modulators - for treatment and diagnosis of e.g. allograft rejection, cancer, AIDS etcand diagnosis of intercellular adhesion dysfunction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                        Antisense oligonucleotide #15 targetted to ICAM-1 3'-UTR (1952-1971).
               Gaps
                                                                                                                                                                                                                              Intercellular adhesion molecule-1; inhibitor; phosphorothioate bond; triple helix; 3' untranslated region; 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ô
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4; Indels
               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
  80.0%; Pred. No. 9.3e+02; ive 0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 13.6; DB 1;
Pred, No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 K-ras codon 12 MTO-PCR set 1 primer #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAGAGTGGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 5; Page 43; 75pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                  Mira;
                                        229 AGTGGTGGTGGTGGCGCAG 248
                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GAGAGGGAAGTGGTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAQ66488 standard; DNA; 20 BP.
                                                                  Acresresresresascas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.8%;
                                                                                                                                                                                                                                                                                                                                                      91WO-US005209.
                                                                                                                                                                                                                                                                                                                                                                                90US-00567286.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                  AAQ22643 standard; DNA; 20
                                                                                                                                                                                    08-JUL-1992 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                          (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1992-096579/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
Best Local Similarity
Matches 16: Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-FEB-1995
                                                                                                                                                                                                                                                                                                                                                       23-JUL-1991;
                                                                                                                                                                                                                                                                                                                                                                                 14-AUG-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16;
                                                                                                                                                                                                                                                                                                                              05-MAR-1992.
                                                                                                                                                                                                                                                                                                     WO9203139-A.
                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ66488;
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                                                                 -1
                                                                                                                                                           AAQ22643;
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AAQ66488/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                       RESULT
                                                                                                                                             8 X X X E X E X
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Length 20; 2; Indels

Score 13.6; DB 1; Pred. No. 9.3e+02; 3; Mismatches

1720

18

detection; sputum; ss

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The sequences given in AAQ66488-90 are primers which were used in the method off the invention for the detection of a mutant oncogene. The method allows the detection and measuring a mutant oncogene contained in a sputum sample. PCR is performed by utilising the mutation position of the objective mutant oncogene as the complementary base to the 3' therminal at base of the PCR primer, and by using a mixture of three primers which are different from teh the normal sequence at the 3' terminus. Another primer is used to hold the mutant oncogene together so that the mutant oncogene can be amplified position specifically and detected. The oncogene is pref. the K-ras gene and the mutation to be detected is pref. either codon 12, 13 or 61. This method allows detection of a mutation which is present only in trace amounts in the test sample
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human intercellular adhesion molecule; ICAM-1; cell adhesion; modulation; inflammation; psoriasis; malignant melanoma; inflammatory bowel disease; antisense oligonucleotide; therapy; ss.
                                                                                                                                                                                                                                                                 Detection of variant oncogene by PCR amplification - using the mutation site as the complementary base to the 3' end of a PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.38+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antisense oligonucleotide which targets human ICAM-1 3'-UTR.

    .20
    *tag= a
    note= "in phosphorothioate form"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 3 A; 3 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1311 GACATACAACTACCCCAAGT 1330
                                                                                                                                                                                                                                                                                                                  Disclosure; Fig 1; 6pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20 GAGCTCCAACTACCACAAGT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ44522 standard; DNA; 20 BP.
                                                                                                                                           92JP-00345280.
                                                                                                                                                                        92JP-00345280
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                                                                                                                                                                                                     (SAKA ) OTSUKA PHARM CO LID.
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(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 0.8
Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                                                                                                                                                      WPI; 1994-230933/28.
                                                                          JP06167492-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Key
misc_feature
                                                                                                                                        30-NOV-1992;
                                                                                                                                                                        30-NOV-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9405333-A1
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26-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-MAR-1994.
                                                                                                           14-JUN-1994
                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
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HBV core antigen (Ag) encoding sequences were subcloned and engineered so as to be transcriptionally controlled by a vaccinia or vaccinia-like promoter. A deleted version of the core gene, referred to as core delta
                                                                                                                                                                                                                                            Antisense oligonucleotides which target human ICAM-1 were synthesised in both the phosphodiester and phosphorothioate forms. The oligonucleotides are useful to treat diseases which are modulated by changes in intercellular adhesion molecules. This sequence corresponds to nucleotides 1952-1971 of the 3'- untranslated region of the human ICAM-1 coding sequence. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                     Oligo:nucleotide modulation of cell adhesion - used in the treatment of e.g. psoriasis, inflammatory bowel disease or malignant melanoma.
                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Prevention and treatment of hepatitis - using recombinant replicable vaccinia viruses contg. hepatitis B virus surface and core antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence of PCR primer for modified HBV core antigen core delta 8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Core antigen; recombinant replicable vaccinia virus; hepatitis; prevention; therapy; epitope; hepatitis B virus; PCR primer; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Souw PTS, Okeefe RW, Lewis T, Bernstine EG;
                                                                                                                                                                                                                Claim 15; Page 51; 101pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAGAGTGGTGGTGGTGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ITBI-) INT BIOTECHNOLOGY LAB INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example, Page 84; 252pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGAGGGAAGTGGTGGGGG 1
                92US-00939855.
93US-00007997.
93US-00063167.
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hes 16; Conservative
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AAQ67992 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                         Bennet CF, Mirabelli CK;
                                                                           (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (revised)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleotide sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1994-200247/24.
                                                                                                                                      WPI; 1994-100869/12.
                  02-SEP-1992;
21-JAN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO9412617-A1
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                                            17-MAY-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09-JUN-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
02-JAN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAQ67992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 226
                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 1199
                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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Polymerase chain reaction; primer; PCR; amplify; oncogene; K-ras; mutant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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schultz621-3.rng

consensus; Brucella; identification; diagnosis; infection; blovar; s; disease; ss.

omp2; consensus; cattle; disease;

Synthetic.

90US-00527017. 92US-00972791.

06-NOV-1992; 22-MAY-1990;

20-SEP-1994. US5348857-A.

(TEXA ) UNIV TEXAS A & M.

Probe for identifying Brucella species.

(first entry)

(revised)

25-MAR-2003 02-MAY-1995

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8, in which 8 AAs are deleted, was used. A construct was made consisting of HBV MS antigen expressed from the modified p7.5 promoter and core delta 8 expressed from the p7.5 promoter. One primer used was AAQ67992 which hybridises from bases -230 to -211 relative to the ATG of core delta 8, upstream of the p7.5 promoter, and creases a HindIII site. A second primer (AAQ67993) hybridises to the opposite strand from bases +553 to +546 and generates a HindIII site. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ71022 and AAQ71023 are primers for the DNA sequence (AAQ79199) that codes for the rat mu-subtype opioid receptor (AAR65188). (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pure mu-type opioid receptor protein - and nucleic acid coding for it.
                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                        ô
                                                                                                                                                                          Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
iive 0; Mismatches 4; Indels
                                                                                                                                                                                                    4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rattus; Mu-subtype opioid receptor; MSOR; primer; ss.
                                                                                                                                          Sequence 20 BP; 3 A; 3 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 3 A; 5 C; 6 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                      Score 13.6; DB 1;
Pred. No. 9.3e+02;
0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    primer for the mu-subtype opioid receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Corbett MJ
                                                                                                                                                                                                                                   512 ACCTGGAGAAGCTGACCCTC 531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 9; 39pp; English
                                                                                                                                                                                                                                                             20 ACATCGAGAAGCTTACCCAC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zysk JR,
                                                                                                                                                                       0.8%;
Similarity 80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (AMCY ) AMERICAN CYANAMID CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      94EP-00101968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93US-00026140
                                                                                                                                                                                                                                                                                                                                        AAQ71023 standard; cDNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                      (revised)
(first entry)
                                                                                                                                                                                                    16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sppler CM, Shieh H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1994-265963/33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-FEB-1994;
                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-2003
19-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                       AAQ71023;
                                                                                                                                                                      Query Match
Best Local S
                                                                                                                                                                                                                                                                                                             RESULT 1200
                                                                                                                                                                                                    Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rapid detection of Brucella may be achieved by amplifying the omp2 gene locus of Brucella (which shows genetic variation correlating with established species designations) and hybridising the amplified sequence with a panel of DNA probes to identify a species of biovar of Brucella. The amplified sequence is preferably a sequence between nuclectides 2470 and 3346 of the consensus sequence described in AAQ71479. The method is used for the detection of Brucella infection in animals, particularly humans and cattle. This probe specifically hybridises to sequences from Brucella abortus biovar 1, Brucella abortus biovar 5, Brucella melitensis, Brucella neotomae and Brucella ovis which are amplified by the primers described in AAQ71496 and AAQ71497. The use of an array of probes (See AAQ71495-509) allows specific identification of the species of Brucella. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                   Identification of Brucella species or biovars - by amplification of the Brucella omp2 gene locus and hybridisation with DNA probes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Glutamate receptor; EAAS receptor; excitatory amino acid; CNS receptor; RNA editing; polymerase chain reaction; PCR; primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Col 41; 50pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                177 CCGAGGCATAGACAAGACCA 196
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                                                                                                                                                                                                                                                                                                                                         Ficht TA, Adams LG;
                                                                                                                                                                                                                                                                                                                                                                        WPI; 1994-302203/37.
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Gaps

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849 CCTGGACAAGGACCTGAAGC 868

16; Conservative

ccrecacadaacrrcaaec

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AAQ71501 standard; cDNA; 20

RESULT 1201

AAQ71501

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226 GAGAGTGGTGGTGGCGG 245
                                                                                   Claim 2; Page 35; 57pp; English
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94US-00214582.
94US-00215088.
94US-00227369.
94US-0025138.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity 80.0 tes 16; Conservative
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18-MAR-1994;
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/*tag= a
/note= "at least one (and preferably all) of the backbone
subunits are composed of amide units, so that the
oligomer consists of the nucleobases attached covalently
to a polyamide backbone"
                                                                                                                                                                                                                                                                                                                    PCR primers (AAQ91246-50) were used to amplify human glutamate receptor EAAAS genomic DNA and cDNA. Examination of the PCR products showed that the cDNA sequence differed from the genomic Sequence at 2 places in the transmembrane domain-coding region, resulting in S310A and R5220 substitutions. These variations were attributed to RNA editing involving T to G and G and A substitutions. Similar RNA editing was found for EAA3 (see also AAQ91231) and EAA4 (see also AAQ91232) genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 peptide nucleic acid; PNA; intercellular adhesion molecule; ICAM-1; endothelial leukocyte; ELAM-1; vascular; VCAM-1; antinfiammatory; anticancer; antimetastatic; anti-AIDS; anti-rhinoviral; ss.
                                                                                                                                                                                                                     Identification of human CNS receptor ligand - and identification of agents that modulate editing of human CNS receptors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.8%; Score 13.6; DB 1; Length 20;
10.0%; Pred. No. 9.3e+02;
ve 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Peptide Mucleic acid oligomer targetting ICAM-1 3'-UTR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 3 A; 4 C; 9 G; 4 T; 0 U; 0 Other;
                                                                                                (ALLX ) ALLELIX BIOPHARMACEUTICALS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1211 CGGGCTCCACGGTGGAGGAA 1230
                                                                                                                                                                                                                                                                                 Example 9; Page 35; 59pp; English.
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                   94WO-CA000705.
                                                           93US-00172188
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Best Local Similarity 80.05
Matches 16; Conservative
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                                                                                                                                                                                WPI; 1995-240670/31.
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                                                                                                                                        Kamboj R, Nutt S;
                                                         23-DEC-1993;
                      21-DEC-1994;
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New oligomers are claimed which (A) have at least one peptide nucleic acid (PNA) subunit and (B) have a sequence hybridisable to AUG region, coding region, 5-untranslated region or 3'-untranslated region or 12-untranslated region or 2 ELAM-1, or hybridisable to AUG region, coding region, 5'-untranslated region or 2 ELAM-1, or hybridisable to AUG region, coding region of CC region, exon/intron junction region or 3'-untranslated region of VCAM-1.

The PNAs can be used to target RNA and single stranded DNA (SDNA) to produce antisense-type gene regulation moieties. Hence they may be used the regulation moieties. Hence they may be used antimersetatic agents, anticancer agents, antimination and antimination and hus as an antimination and antihination and chis as an extend agents, anticancer agents, anticancer agents, anticancer agents, anticancer agents, antimination and all agents and antihination and obligomers have high affinity for complementary single stranded DNA. They are also able to form triple helices in which a first PNA strand binds with the first PNA strand binds with the resulting double helix or which facilitates cellular uptake. Further, since they contain and antimination and processes no significant charge and are water coluble, which facilitates cellular uptake. Further, since they contain and second and processes. The present sequence targets human cutymanslated region human intercellular adhesion molecule-1 (ICAM-1) 3' untranslated region
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New peptide nucleic acid oligomers hybridising to adhesion molecule genes - are stable anti:sense cpds. of high affinity, partic. for treating inflammation, viral infection, cancer etc.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.38+02;
ive 0; Mismatches 4; Indels
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                                                      The cDNA sequences encoding several multiple tumour suppressor (MTS) polypeptides have been isolated and sequenced, using various sequencing and amplification primers. AAQ99936-40 are oligonucleotides used to amplify cDNA encoding mouse MTSIEL-beta to allow comparison of the human and murtime sequences. MTS polypeptide-encoding CDNAs and mutants of these mutations of MTS cDNAs can be used for diagnosin of physics of these metalnoms of MTS cDNAs can be used for diagnosing predisposition to metalnoma. Leukaemia, astrocytoma, glioblastroma, lymphoma, glioma, glioblastroma, lymphoma, glioma, uterus, testis, kidney, stomach and rectum. The wild-type gene is useful for gene therapy and MTS polypeptides may also be used for procein replacement therapy. Also the polypeptides or cells contg. an altered MTS gene are useful for screening for potential cancer therapeutics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ81115 is a peptide nucleic acid (PNA), which binds a target sequence. The binding of the PNA prevents the transcription of the target sequence
                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Peptide nucleic acid; gene therapy; transcription arrest; diagnosis;
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binding to ssDNA, dsDNA or RNA for use in therapy, diagnosis and
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/note= "covalently bound Lys-NH2 group"
                                                                                                                                                                                                                                                                          Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
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Mollegaard NE;
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                             Example 12; Page 71; 156pp; English
                                                                                                                                                                                                                                                                                                                                                                      505 GAGGGCTACCTGGAGAAGCT 524
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(first entry)
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Best Local Similarity
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modified_base
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28-SEP-1995
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Matches
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AAQ81115/
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by RNA polymerase. The ability of the PNA to arrest transcription makes it useful in gene therapy, and in diagnostic and prophylatic methods. (Updated on 25-MAR-2003 to correct PN field.)
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binding to ssDNA, dsDNA or RNA for use in therapy, diagnosis and
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                                                                             0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ative 0; Mismatches 4; Indels
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                                                      Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Berg RH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Egholm M, Nielsen PE,
                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 28; 139pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                      226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag= a
/note= "amidated"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CACAGGGAAGTGGTGGGGG 1
                                                                                                                                                                20 dadadeddaadredrededd 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94WO-US007319.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9305-00088658
                                                                                                                                                                                                                                   AAQ81119 standard; DNA; 20
                                                                                                                                                                                                                                                                                         (revised)
(first entry)
                                                                                 Query Match
Best Local Similarity 80.0
Matches 16, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                  Peptide nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1995-060949/08.
                                                                                                                                                                                                                                                                                                                                                                             prophylaxis; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Buchardt O, E
Mollegaard NE;
                                                                                                                                                                                                                                                                                                                                                                                                                                Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9501370-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-JUL-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  prophylaxis.
                                                                                                                                                                                                                                                                                         25-MAR-2003
28-SEP-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-JAN-1995
                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                 AAQ81119;
                                                                                                                                                                                                           RESULT 1206
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An individual can be diagnosed as having a predisposition to cancer by detecting an alteration in the wild type multiple tumour suppressor (MTS) dene, using gene probes which hybridise to the MTSI gene (amplified using the PCR primers AAT00729-31). The above assay can also be used in the diagnosis and prognosis of melanoma, lymphoma, leukaemia and pancreas,
                                                                                                                                                                                                                                                                      Detecting polymorphism associated with cancer pre:disposition - also DNA, vectors and host cells e.g. for gene or protein replacement therapy and
                                                                                                                                                                                                                                                                                                                                    Example 12; Page 71; 148pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                         breast and thyroid cancers, etc
                                                                                                                                                                                                                   Cannon-Albright
                                                                              94US-00214582.
94US-00215086.
94US-00215087.
94US-00227369.
94US-00251938.
                                                     95WO-US003537.
                                                                                                                                                                      (UTAH ) UNIV UTAH RES FOUND
(MYRI-) MYRIAD GENETICS INC
                                                                                                                                                                                                                                              WPI; 1995-344626/44
                                                                                                                                                                                                                                                                                                           drug screening
                                                                                                                                                                                                                   Skolnick MH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-FEB-1996
WO9525813-A1.
                                                      17-MAR-1995;
                                                                                                             18-MAR-1994;
14-APR-1994;
                                                                                                                                             01-JUN-1994;
                                                                                   18-MAR-1994;
                          28-SEP-1995.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ88741;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 1209
AAQ88741/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A probe of approximately 1 kb recognising beta-giardin genomic DNA was generated by PCR with the oligonucleotides AAQ80942 and AAQ80943. A random probe was generated as a 1.5 kb product with the primers AAQ80944 and AAQ80945. The probes were used in the identification of cosmids from the beta-giardin genomic region in a diardia lamblia 20-genome equivalent cosmid library. This was part of a novel method for sequence-sampled mapping of complex genomes. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ል
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequencing complex genomes, present as fragments in a cosmid library - k sequencing end-specific nucleotides of each clone then correlating with spatial relationship of cosmid, esp. for mammalian chromosomes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                       sequence sampled mapping; genomic analysis; complex genome mapping; cosmid library; Giardia lamblia; ss.
                                                                                                                                                PCR primer to generate a random probe for screening complex genome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
.ive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 5 A; 11 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                     (SALK ) SALK INST BIOLOGICAL STUDIES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 3; Page 43; 128pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       230 GTGGTGGTGGTGGCGCAGT 249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20 daddrddrddrdrdaddr 1
                                           AAQ80945 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                              94WO-US006810.
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93US-00117952.
                                                                                                                    (first entry)
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Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                     (revised)
                                                                                                                                                                                                                                                                                                                                                                                                                 Evans GA, Smith MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1995-036508/05.
                                                                                                                                                                                                                                                                                                             15-JUN-1994;
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07-SEP-1993;
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                                                                                                     25-MAR-2003
24-AUG-1995
                                                                                                                                                                                                                                                                                  22-DEC-1994
                                                                                                                                                                                                                        Synthetic.
                                                                         AAQ80945;
               RESULT 1207
                                AAQ80945
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                                                                                                                                                                                                                                  antisense; analogue; non-terminal pyrimidine; phosphorothioate; backbone; treatment; HIV; human immunodeficiency virus; HSV; herpes simplex virus; cancer; integrin; cell adhesion receptor; infection; diagnosis;
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                                            Gaps
                                            ö
                   Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                               Σ̈́
                                                                                                                                                                                                                                                                                                                                                                                                                               Helsberg
Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                Human ICAM modified antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Kretzschmar G,
                                                                   505 GAGGCTACCTGGAGAGCT 524
                                                                                    20 GAAGGCTTCCTGGACACGCT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                Mag M,
                                                                                                                                                ВЪ.
                        0.8%;
                                                                                                                                                                                                                                                                                                                                                               94EP-00117513
                                                                                                                                                                                                                                                                                                                                                                                      93DE-04338704
                                                                                                                                                AAQ88741 standard; DNA; 20
                                                                                                                                                                                           (first entry)
                  Query Match
Best Local Similarity 80.05
Matches 16; Conservative
                                                                                                                                                                                                                                                                       nuclease resistance; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Peyman A, Uhlmann E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1995-180677/24
                                                                                                                                                                                                                                                                                                                                                                                                             (FARH ) HOECHST AG.
                                                                                                                                                                                                                                                                                                                                                                                    12-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                               07-NOV-1994;
                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                   EP653439-A2
                                                                                                                                                                                                                                                                                                                                          17-MAY-1995,
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Multiple tumour suppressor; MTS1; cancer; diagnosis; assay; predisposition; melanoma; leukaemia; lymphoma; prognosis; pancreas; breast; thyroid; P16 specific; reverse PCR primer; ss.

Synthetic

Multiple tumour suppressor 1 gene P16 specific reverse PCR primer.

(first entry)

08-MAY-1996

AAT00729

BP.

AAT00729 standard; DNA; 20

non-terminal

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The antisense oligonucleotide (ON) shown is a derivative of an equivalent wild type Human ICAM ON, in which at least one, esp. 2-10, non-terminal pyrimidine nucleotide(s) is/are modified. The modification may be: (a) replacement of a phosphodiseter linkage by: a phosphoro-thioate (PS), dithioate, aramidate; borano-, alkyl-, aralkyl-phosphate; 2,2.2-trichloro-1, Idimethyl-, alkyl- or aryl- phosphonate linkage; or (3'-thio) formacetal, methylhydroxylamine, oxime, methylendedimethylhdrazo, thio) formacetal, methylhydroxylamine, oxime, methylenedimethylhdrazo, phosphate backbone by a "morphholinonucleoside" oligomer; (c) replacement of beta-D-2-deoxyribose by another sugar or carbocyclic, open-chain or bicyclic sugar analogue, or (c) replacement of the natural nucleoside base by an analogue, e.g. 5-hydroxymethyl-uridine The 5' and/or 3' terminus may also be modified with a lipophilic gp, eg, a farnesyl. The modifications increase nuclease resistance and thus improve stability and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Single-stranded DNA for identifying gene signatures - isolated from 3'-directed human cDNA library that reflects relative abundance of corresp. mRNA in specific human tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Primers T41001-T41382 are derived from novel human gene signature (GS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gene signature; messenger RNA; mRNA; relative abundance; frequency; human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; primer; PCR; amplification; polymerase chain reaction; ss.
                  New anti:sense oligo:nucleotide analogues - with modified non-term
pyrimidine nucleotide units, useful for treating viral infections,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Natch 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; les 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human gene signature HUMGS00995-derived anti-sense primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 7; Fig 10; 2245pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20 GAGAGGGAAGTGGTGGGGG 1
                                                                                             Claim 1; Page 31; 36pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT41336 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94WO-JP001916.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     93JP-00355504.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   datsubara K, Okubo K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MATS/) MATSUBARA K. (OKUB/) OKUBO K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1995-206931/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W09514772-A1
                                                          cancer, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-DEC-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAT41336;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                     activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 1210
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sequences which did not match with sequences deposited in Genbank release 76. The GS sequences (T19001-T26837) were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Bach library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was determined (sp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types. The primers T41335-6 amplify clone pm0268 which comprises the GS HUMGS000995 (T19995). This amplification reaction gave prod. indistinguisable from the same PCR using mouse or Chinese hamster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A sense oligonuclectide S50 (AAQ99516) corresp. to nuclectides 50-69 in the human Fas ligand coding sequence given in AAT03498 was synthesised with phosphororhicate linkages. The complementary, antisense oligonuclectide A69 (AAQ99517) was also synthesised. The effects on Fas ligand-mediated apoptosis of A69 and S50 were analysed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Peptide which binds to Fas antigen, and antibody reactive with it - for treatment and diagnosis of viral or auto:immune diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fas ligand, Tumour Necrosis factor family; apoptosis; cell death; Fas cell surface antigen; human; Fas-L; phosphorothioate; antisense oligonucleotide; inhibition; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human Fas ligand phosphorothioate antisense oligonucleotide A69.
                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                       0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                            Sequence 20 BP; 5 A; 8 C; 1 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 2 A; 5 C; 8 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Suda T, Takahashi T, Nakamura N;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 20; Page 111; 300pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                   339 GGACTTGAAGATGGGGTCTG 358
                                                                                                                                                                                                                                                                                                                                                                                                    20 GGTATAAAGATGGGGTCTG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ99517 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                  16; Conservative
                                                                                                                                                                                                                        ovary DNA as a template
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1995-194031/25.
                                                                                                                                                                                                                                                                                                            Local Similarity
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08-JUL-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAQ99517;
                                                                                                                                                                                                                                                                                           Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 1211
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RESULT 1212

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New oligo:nucleotide(s) contg. 8-aza:purine base - useful as therapeutic and diagnostic agents with more stable hybridisation to target nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT44425-54 are antisense oligonucleotides which have at least one 8-azapurine base. The presence of an 8-azapurine base results in significantly stronger complexing when hybridising to target nucleic acids. The present sequence is against the intracellular adhesion molecule (ICAM) gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense therapy, guanosine, intercellular adhesion molecule, ICAM, nuclease resistance, stability; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                               8-azapurine, modification; stronger complex; inhibition; intracellular adhesion molecule; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ICAM antisense component of capped oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                Antisense oligonucleotide against ICAM gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 44; 51pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20 GAGAGGGAAGTGGTGGGGG 1
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AAT44250 standard; DNA; 20 BP.
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              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Uhlmann E;
                                                                                                                                                                                                                                                                                                                                                                               WPI; 1995-375165/49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (FARH ) HOECHST AG.
                                                                                                                                                                                                                                                                                                           (FARH ) HOECHST AG.
                                                                                                                                                                                                                                                                                                                                              Seela F, Lampe S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DE19502912-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-JAN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-JAN-1995;
                                                                                                                                                                                                                                        26-APR-1995;
                                                                                                                                                                                                                                                                          02-MAY-1994;
                27-JAN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-AUG-1996.
                                                                                                                                                                      EP680969-A2
                                                                                                                                                                                                         08-NOV-1995
                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Реутап А,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAT44250;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 1214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAT44250/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                °;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A sense oligonucleotide S50 (AAQ99516) corresp. to nucleotides 50-69 in the human Fas ligand coding sequence given in AAT03498 was synthesised with phosphorothioate linkages. The complementary, antisense oligonucleotide A69 (AAQ99517) was also synthesised. The effects on Fas ligand-mediated apoptosis of A69 and S50 were analysed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Peptide which binds to Fas antigen, and antibody reactive with it - for treatment and diagnosis of viral or auto:immune diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                Gaps
                                                                                                                                                                                                                                                                                                                                          Fas ligand, Tumour Necrosis factor family, apoptosis, cell death, Fas cell surface antigen, human, Fas-L; phosphorothicate, sense oligonucleotide, inhibition; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
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                                                                                                                                                                                                                                                                                                           Human Fas ligand phosphorothicate sense oligonucleotide S50.
            Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 5 A; 8 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Takahashi T, Nakamura N;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 20; Page 111; 300pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    483 ACCAGCTGACATCCGGCTGC 502
                                                                                   483 ACCAGCTGACATCCGGCTGC 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 Accadereccargeage 20
                                                                                                                  20 Accaderecearecades
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      93JP-00305975.
93JP-00342526.
94JP-00074344.
94JP-00180955.
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                                                                                                                                                                                                         AAQ99516 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MOCH ) MOCHIDA PHARM CO LTD. (OSAB-) OSAKA BIOSCIENCE INST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      94WO-JP001899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94JP-00278378
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                                                                                                                                                                                                                                                                          28-FEB-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1995-194031/25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nagata S, Suda T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-DEC-1993;
18-MAR-1994;
08-JUL-1994;
07-SEP-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9513293-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-OCT-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-NOV-1993
                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                          AAQ99516;
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RESULT 1213

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AAT44449,

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Gaps

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schultz621-3.rng

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Gaps

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The F1 Min/Immortomouse and conditionally immortalised cell lines derived from this mouse, carrying the Multiple Intestinal Neoplasia (Min) gene, which predisposes to colon cancer, and a temperature sensitive mutant of the SV40 large T gene which allows growth at certain temperatures, are useful in studies of aberrations of growth and differentiation, including carcinogenesis that may be induced, e.g. by viruses, various genes or mutagens. PCR analysis was carried out to detect the presence of the SV40 large T gene and the Min mutant allele. Most presence of the sylvalissue of mice greater than 2 weeks of age. AAT15588-87 which were used to test for the presence of the Min mutant allele, produced a 280 bp PCR
                  cancer, restenosis, medical conditions mediated by integrins or ceil-cell adhesion receptors, and medical conditions induced by growth factors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Transgenic animals contg. an immortalising gene and intestinal neoplasia-associated gene - useful in studies of e.g. carcino-genesis, that may be induced by e.g. viruses, various gene or mutagens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          primer; PCR; polymerase chain reaction; amplification; detection; Min; multiple intestinal neoplasia; cancer; colon; SV40 large T gene; transgenic mouse; immortalised cell line; ss.

    HSV-2, an influenza virus, VSV, hepatitis B or papilloma virus)

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Primer for Min mutant allele 280 bp PCR product amplification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.8%; Score 13.6; DB 1; Length 20; 30.0%; Pred. No. 9.3e+02; [ve 0; Mismatches 4; Indels
                                                                                                                                                                  Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 4 A; 0 C; 6 G; 10 T; 0 U; 0 Other;
                                                                                                                     Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1309 AAGACATACAACTACCCCAA 1328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 4; Page 17; 50pp; English.
                                                                                                                                                                                                                                                                        226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 AACACATACAACTICACTAA 1
                                                                                                                                                                                                                                                                                                                     20 gagagggaagregregeg 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (LUDW-) LUDWIG INST CANCER RES.
                                                                                                                                                                  0.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               94AU-00006471.
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                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT15587 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Whitehead RH, Joseph JL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity 80.0
nes 16; Conservative
                                                                                                                                                                                            Local Similarity 80.0
ses 16; Conservative
                                                                      (especially TNF-alpha)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1996-068869/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9600285-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-JAN-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAT15587;
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                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1216
                                                                                                                                                                                               Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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8888838
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gene expression inhibitor; probe; nucleic acid detection; growth factor; viral infection; therapy; HSV-1; cancer; restenosis; integrin; cell-cell adhesion receptor; ICAM; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New phosphono:mono:ester oligo:nucleotide analogues - inhibitors of gene expression for treating viral infections, cancer, restenosis, etc.
                                                                    Oligo:nucleotide(s) with series of G residués at at least one end have increased stability against nuclease and cell penetration, - are particantisense sequences for treating and diagnosing cancer, viral diseases
                                                                                                                                                                                                                                         Ten- to 40-mer oligonucleotides which have a cap of 1-10 (esp. 4) G residues on at least one end are provided; if caps are present at both ends, they can be of the same or different lengths. A cap sequence increases nuclease resistance of the oligonucleotide and also increases cell penetration. The present sequence is that of a preferred oligonucleotide, directed against an intercellular adhesion molecule sequence, which can be capped for use in anticencer therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wallmeier
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Breipohl G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            dadadeggaadregredege 1
                                                                                                                                                                                            Claim 3; Page 13; 15pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             96AU-00048028
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95DE-01043865.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX33922 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ICAM expression inhibitor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Peyman A, Uhlmann E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1996-455932/46.
                       WPI; 1996-355223/36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (FARH ) HOECHST AG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-JUN-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-NOV-1995;
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Synthetic

AAX33922;

RESULT 1215 AAX33922/c

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g

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Gaps

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20 GAGAGGGAAGTGGTGGGGG 1

a

AAX24204 standard; DNA; 20

AAX24204

01-JUL-1999 (first entry)

AAX24204;

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ART30211-T30233, AAT33058-T33112 and AAT36667-T36684 represent antieense oligomucleotides of the invention. These sequences target regions of the coding sequences for human intercellular adhesion molecule-1 (ICAM-1), endothelial leukocyte adhesion molecule-1 (ELAM-1, also known as Eselectin), or vascular cell adhesion molecule-1 (VCAM-1). This sequence targets the 3' untranslated region (nucleotides 1952-1971) of ICAM-1. CICAM-1, ELAM-1, and VCAM-1 represent three of the five cell adhesion molecules involved in the adherence of white blood cells to vascular endothelium. These sequences can be used in a composition for treating allograft rejection. The composition ontains one of these sequences in combination with an immunosuppressive agent. The immunosuppressive agent used in the compositions is brequinar, rapamycin, anti-lymphocyte serum, a monoclonal antibody against LFA-1 or an antisense oligomucleotide. The compositions can be used for treating or preventing allograft rejection, such as cardiac or renal allograft rejection. By using these compositions, allograft survival times are extended, and donor-specific
                                                                                                                                                                           Antisense oligomucleotide; human; intracellular adhesion molecule-1; ICAM-1; endothelial leukocyte adhesion molecule-1; ELAM-1; E-selectin; vascular cell adhesion molecule-1; VCAM-1; white blood cell; brequinar; vascular endothelium; allograft rejection; immunosuppression; rapamycin; anti-1ymphocyte serum; monoclonal antibody; cardiac allograft; therapy; renal allograft rejection; donor-specific transplant tolerance; LFA-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oligo:nucleotide targetted to a nucleic acid sequence encoding ICAM-1, ELAM-1 or VCAM-1 - useful for treating or preventing allo:graft rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= a
/note= "phosphorothicate backbone"
                                                                                                                                               Antisense oligonucleotide ISIS 1939.
                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
1. .20
/*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 5; Page 49; 92pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transplant tolerance is induced
                                  AAT30227 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      94US-00344155.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 95WO-US015536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sennett CF, Stepkowski SM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ISIS-) ISIS PHARM INC.
(TEXA ) UNIV TEXAS SYSTEM.
                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1996-268321/27.
                                                                                                                                                                                                                                                                                                                                                                                Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9615780-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-MAY-1996.
                                                                                                          20-JAN-1997
                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                        AAT30227;
RESULT 1217
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This invention describes novel phosphonomonoester oligonuclectide analogues which act as inhibitors of gene expression (as sense/antisense, ribozyme or triplex-forming molecules), useful as diagnostic agents (i.e. probes for detecting nucleic acid) or for treatment of diseases caused by viruses, influenced by integrins or cell-cell adhesion receptors, induced by factors such as TMF-alpha, or cancer or restenoisis. The products of the invention satisfy the requirements of good in-vivo stability, to cross cellular and nuclear membranes, and specific binding to target nucleic acid better than known oligonucleotides
                                                                                                       Phosphonomonoester analogue; inhibitor; antisense; cancer; restenosis; ribozyme; diagnostic agent; detection; treatment; disease; virus; integrin; cell-cell adhesion receptor; TNF-alpha; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antisense; anti-proliferative; tumour; cancer; raf; oncogene; phosphorothicate; 2' sugar modification; psoriasis; restenosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                            New oligo:nucleotide analogues contg. phospho:mono:ester bridges - therapeutic inhibition of gene expression, e.g. in cancer or viral infection, with good specificity and in vivo stability.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human c-raf kinase coding region antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Seguence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                Wallmeier
                                                                              Phosphonomonoester oligonucleotide analogue 21
                                                                                                                                                                                                                                                                                                                                                                                Breipohl G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 23; 36pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20 GAGAGGGGAAGTGGTGGGGG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAT27491 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                  95DE-01008923
                                                                                                                                                                                                                                                                                                                                                                                  Uhlmann E,
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                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1996-425893/43.
                                                                                                                                                                                                                                                                                                                                                   (FARH ) HOECHST AG.
                                                                                                                                                                                                                                                                                                                                                                                  Anuschirwan P,
                                                                                                                                                                                                                  DE19508923-A1.
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                                                                                                                                                                                                                                                                                   13-MAR-1995;
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                                                                                                                                                                                                                                                   19-SEP-1996.
                                                                                                                                                                                 Synthetic.
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Query Match
Best Local Similarity 80.0
Matches 16; Conservative

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Gaps

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95WO-US007111 94US-00250856

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AAT27481-T27507 are human c-raf kinase antisense oligonucleotides used for the inhibition of raf expression. The oligonucleotides (ONs) are trageted to either coding region, start or stop signals or 5' or 3' untranslated region (UTR) mNAM encoding human c-raf. The ONs may be phosphorothioate linked and may contain modifications at the 2' position of the sugar molety. ONs are pref. complementary to either 3' or 5' UTRs, phosphorothioate linked and contain 2''O-alkyl sugar modifications. The ONs are used to inhibit expression of human raf in partic. in conditions associated with hyperproliferation e.g. cancer, restenosis, and psoriasis
                                                                                                                                                                                                                           Oligo:nucleotide(s) targetted to nucleic acids encoding human raf capable of inhibiting raf expression, used in treatment of hyper:proliferative disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human potassium channel gene subregion E antisense primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 5 A; 4 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (UYCH-) UNIV CHIBA SUSUMU SEINO INOHANA SHUKUSHA.
                                                                                                                                                                                                                                                                                 Disclosure, Page 15; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1186 ATGGCCACAGGCCGTCCCCT 1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 ArederceAeecerreacer 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAT61877 standard; DNA;
                                                                                                                                               (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seino S, Inagaki N;
                                                                                                                                                                         Monia BP, Boggs RT;
                                                                                                                                                                                                 WPI; 1996-030518/03.
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                                                                                          31-MAY-1995;
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                                      WO9532987-A1
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                                                                37-DEC-1995
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            Synthetic.
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Best Local Si
Matches 16;
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either by anti:sense or aptameric effects, useful for enhancing cytotoxic
effects of chemotherapeutic agents on multi:drug resistant cancer cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag= a /*tag= a /*tag= a /*tag= a /*tag= a /*tag= a /*note= /*ackbone selected from: phosphorothioate; morpholino dithioate; methylphosphonate; phosphodiester; morpholino backbone; polyamide backbone; and any combination of these backbone types; the backbone may be modified to incorporate a ribozyme structure, or a pendant group"
                                    Human and mouse pancreatic ATP sensitive potassium channel proteins - for diagnosis, therapy and research into potassium channel related diseases, e.g. diabetes.
                                                                                                                                      PCR primers (AATG1868-79) were designed to amplify subregions A-F of the human pancreatic ATP sensitive potassium channel beta-IR gene (see also AATG1866). The antisense primer (AATG1877) for subregions E (494 bp) corresponds to nucleotides 999-1019 of the gene. Cy5-labelled primers were used in the PCR-SSCP analysis of genomic DNA collected from 20 healthy Japanese subjects
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence represents a novel oligonucleotide 3(3B)MRP that
                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human multidrug resistance-1; MDR-1; inhibition; aptameric;
human multidrug resistance-associated protein; antisense; cytotoxic;
chemotherapeutic; cancer; ss.
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                                                                                                                                                                                                                                                                                    0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred; No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                         Sequence 20 BP; 3 A; 4 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Complementary human MRP oligonucleotide 3(3B)MRP.
                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 17; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                          885 TGGGAACATCATCAACATGC 904
                                                                                                             Example 3; Fig 6; 16pp; English.
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nes 16; Conservative
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               WPI; 1997-181836/17.
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misc_feature
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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels

ВЪ.

(first entry)

96EP-00114885 95JP-00264943 20 GAAGGCTTCCTGGACACGCT 1

AAT98014 standard; DNA; 20

AAT98014;

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specifically hybridises in a human cell with a complementary sequence of human multidrug resistance-associated protein (NRP) gene. Hybridisation causes inhibition of expression of the multidrug resistance phenotype by the cell, due to the oligomucleotide having an aprameric inhibitory effect as well as an antisense inhibitory effect. The oligomucleotide is administered to cancer patients to prevent development of the multidrug resistant phenotype. When co- administered with chemotherapeutic agents the oligomucleotide is useful for potentidating elimination of multidrug resistant tumour cells from bone marrow or peripheral stem cell grafts. Also, the oligomucleotide can be used as an immunosuppressive agent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Primer; polymerase chain reaction; PCR; amplification; P16; promoter; ss.
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                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence is primer for the PCR amplification of the P16 promoter. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                            Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                              Sequence 20 BP; 1 A; 5 C; 10 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Seguence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Skolnick MH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pl6 promoter specific reverse primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 12; Col 83-84; 72pp; English.
                                                                                                                                                                                                                                                                                                 733 GCACCCTGCACCGCCATCCG 752
                                                                                                                                                                                                                                                                                                                                20 GCAGCGACCACCGCATCCG 1
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94US-00215086.
94US-00215087.
94US-00227369.
94US-00251938.
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                                                                                                                                                                                                                                                                                                                                                                                                                    AAT72304 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (revised)
(first entry)
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10-SEP-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAT72304;
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comprising conserved sequences of human immunodeficiency virus and simian
immunodeficiency virus genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 acid amplification of conserved sequences of the gag, vpr, pol or vpu genes of the HIV-1 strains Bru, Mal, Bil, HIV-2 ROD or sinian immunodeficiency virus (SIV) MAC or the neft, vift or vpx genes of HIV-2 ROD and SIV MAC. This primer is taxgetted to sequences in the gag gene of the viral strains. The sequence are therefore used to detect HIV-1, HIV-2 or SIV infections. (Updated on 25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to correct PR field.)
                                                                                                                  Primer; PCR; amplification; gag; vpr; pol; vpu; HIV-1; HIV-2; SIV; nef2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The oligonuclectides AAT98010-T98059 are useful as primers for nucleic
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0
                                                                                      Human or simian immunodeficiency virus detection primer MMy4B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Primer #35 for cystic fibrosis transmembrane regulator gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%; Score 13.6; DB 1; Length 20; 2.2%; Pred. No. 9.3e+02;
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(INRM ) INSERM INST NAT SANTE & RECH MEDICALE.
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                                                                                                                                                                                            Simian immunodeficiency virus.
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                                                                                                                                                                             immunodeficiency virus
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                                                         (first entry)
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                                                                                                                                  vif2; vpx; detection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                   Moncany M, Montagnier L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13; Conservative
                                         (revised)
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                                                        08-SEP-1998
                                                                                                                                                                                                                                                                                                               02-JUN-1989;
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                                           25-MAR-2003
                                                                                                                                                                                                                         EP806484-A2
                                                                                                                                                               Synthetic.
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Gaps

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505 GAGGCTACCTGGAGAAGCT 524

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AAT47375-T47409 represent amplification primers for the cystic fibrosis transmembrane regulator (CFTR) gene. These sequences can be used as half of the chimeric primers of the invention. The primers are used for amplification of a target DNA sequence, and can be used in a multiplex per amplification. The primers have the sequence 5'-XY-3', where X is a sequence contained within or flanking the target. The contain that does not hybridise to the target sequence (such as AH47344 and Y is a sequence contained within or flanking the target or products are synthesised that contain the chimeric primers on either end. The primers then serve as high stringency recognition sequences for subsequent rounds of amplification. As a result, the annealing efficiency of different primers and their targets in a multiplex amplification of caction is normalised, thereby reducing preferential amplification of certain targets. The chimeric primer comprise a 5' universal domain and a 3' target-specific domain. They are used for the simultaneous PCR amplification of multiple DNA targets in a sample. The primer containing AAT47344 is particularly useful in high-throughput genetic screening for mutations in genes like the CFTR, the Wilms Tumour, and the beta-
                PCR; primer; amplify; polymerase chain reaction; bacteriophage; M13mp18; oystic fibrosis transmembrane conductance regulator gene; multiplex PCR; chimer; genetic screening; mutation detection; CFTR; wilms Tumour gene; beta-thalassaemia gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                            Universal primer used for multiplex DNA amplification - allows simultaneous amplification of multiple DNA target sequences for high through-put genetic screening.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Forward PCR primer used to amplify a 241 bp fragmnet of CMOAT CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 3; Fig 1b; 38pp; English.
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les 16; Conservative
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                                                                                                                                                                                                                                                                                                   (GENZ ) GENZYME CORP
                                                                                                                                                                                                                                                                                                                                                                                WPI; 1997-052372/05.
                                                                                                                                                                                                                                                                07-JUN-1995;
                                                                                                                                                 WO9641012-A1
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                                                                                                                                                                                        19-DEC-1996
                                                                                                               Synthetic
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canalidudar multispecific organic anion transporter (cMOAT) protein cDNA.
The PCR product was cloned, and subsequently used in a RNAse protection assay. CMOAT is a new member of the ATP-binding cassette (ABC) transporter family. The ATP dependent CMOAT transporter system mediates transporter family. The ATP dependent CMOAT transporter system mediates chepatobiliary excretion in the liver. CMOAT may be a liver-specific homologue of multidrug resistance associated protein. The mucleic acids are used to provide cells with cMOAT protein activity, cMOAT protein activity, cMOAT protein activity, cMOAT protein activity, cMOAT protein activity in cells can be enhanced by increasing the level of glutathione, glucuromide and/or sulphate. Antisense constructs, especially derived from another multidrug resistance (MDA) related protein, especially derived in a cell. The mucleic acids and vectors can be used to decrease the level of cMOAT in a cell. The mucleic acids and proteins can be used especially in disease involving cMOAT. The cMOAT gene may also be used as a selectable marker gene. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
hepatobiliary excretion; multidrug resistance-associated protein; CMOAT protein activity; multidrug resistance-related protein; MDR-1; Dubin-Johnson disease; Rotor disease; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA encoding human and rat canalicular multispecific organic anion transporter proteins - useful for diagnosis and treatment of Dubin-Johnson disease and Rotor disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleotide sequence of P16 specific reverse PCR primer.
                                                                                                                                                                                                                                                                                                                                                          Borst P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 4 A; 6 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                        Bosma PJ,
                                                                                                                                                                                                                                                                             (INTR-) INTROGENE BV.
(MEDI-) ACAD MEDISCH CENT AMSTERDAM.
(HETN-) HET NEDERLANDS KANKER INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 6; Page 29; 106pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTCATCTTCCGTATCTTAG 1258
                                                                                                                                                                                                                                                                                                                                                        Oude Elferink RPJ, Paulusma CC,
Kool M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 crecercircadaarcirad 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16; Conservative
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                                                                                             Homo sapiens.
                                                                                                                              WO9731111-A2
                                                                                                                                                                                                        21-FEB-1997;
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                                                                           Synthetic
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Gaps

Canalicular multispecific organic anion transporter protein, CMOAT protein, ATP-binding cassette transporter family, ABC transporter,

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This is the nucleotide sequence of a PCR primer used for amplification in suppressor (MTS) gene, to diagnose and treat cancer. The MTS gene is useful in the diagnosis and prognosis of human cancer, e.g. by standard nucleic hybridisation techniques, of patient samples. The mutated sequences are those that are present in somatic mutations of the gene in cancers. The westers can be used for gene therapy strategies to replace construct protein in patients. These can also be used to the expression constructs also for therapeutic strategies. In addition the expression constructs can also be used to some the expression constructs can also be used to MTS. Recombinant MTS can be used to screen for drugs to be used for cancer therapy, and the protein itself may also be used to restore MTS.
                                                                                                                                                                                                                                                                                                                  Nucleic acids based on multiple tumour suppressor, MTS, sequences -useful as hybridisation probes, primers and recombinant production of MTS in the diagnosis and treatment of cancers related to MTS mutation(s).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unmethylated CpG dinucleotide; immune response; bacterial meningitis; natural. Killer cell activation; NK cell; Th2 response; neonatal sepsis; pulmonary disorder; asthma; environmentally induced airway disease; bacterial infection; endotoamani; therapy; cystic fibrosis; inflammatory bowel disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                      Example 12; Col 85-86; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unmethylated CpG dinucleotide 2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 505 GAGGGCTACCTGGAGAAGCT 524
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                                                                                             94US-00214582,
94US-00215086,
94US-00215087,
94US-00227369,
94US-00251938,
95WO-US003316,
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                                                                95US-00480810.
                                                                                                                                                                                                                   (MYRI-) MYRIAD GENETICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-NOV-1998 (first entry)
                                                                                                                                                                                                                                                                                     WPI; 1998-494842/42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               function in a cell
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                                                                07-JUN-1995;
                                                                                                                                                                 01-JUN-1994;
17-MAR-1995;
                                                                                                               18-MAR-1994;
18-MAR-1994;
US5801236-A.
                                                                                                   18-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-SEP-1998.
                                                                                                                                                  14-APR-1994
                                 01-SEP-1998
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This sequence represents an unmethylated CpG dinuclectide, and can be used in the method of the invention. The method is for treating a subject having, or at risk of having an acute decrement in air flow, comprising administering a nucleic acid sequence containing at least one unmethylated CpG. The nucleic acids containing an unmethylated CpG than underlynamed containing an unmethylated CpG than underlynamed containing an unmethylated CpG than underlynamed containing an unmethylated CpG than the nucleic acids containing an unmethylated CpG than the nucleic acids containing a numbject by activating natural killer cells (NK) or redirecting a subject's immune response from a Th2 to a Th1 response by inducing monocytic and other cells to produce Th1 cytokines. They can be used to treat pulmonary disorders having an immunologic component, such as asthma or environmentally induced airway positive bacterial infections or endotocaemia including bacterial meningitis, neonatal sepsis, cystic fibrosis, inflammatory bowel disease and liver cirrhosis, gram-negative phodominal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer, amplification, yeast, UAS, upstream activating sequence, transcription terminator; cell cycle, Upstream Activation Sequence, UAS, promocer, phosphorylation, cyclin, cyclin-dependent kinase, CDK; vector, cyclin kinase inhibitor; CKI; growth; wound healing; cancer therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         abscess, haemorrhagic shock, disseminated intravascular coagulation, or an inflammatory response to lipopolysaccharide
                                                                                                                                                                         Use of nucleic acids containing an unmethylated CpG - for treating a subject having or at risk of having an acute decrement in air flow or inhibiting an inflammatory response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Primer #2 for human CDK2 codons 1-149.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      555 CCTCAGCCGCCGCCTCCGTC 574
                                                                                                                                                                                                                                                        Claim 35; Page 27; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAV60732 standard; DNA; 20 BP
                   28-FEB-1997; 97US-0039405P.
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                                                       (IOWA ) UNIV IOWA RES FOUND.
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les 16; Conservative
                                                                                                Schwartz DA, Krieg AM;
                                                                                                                                    WPI; 1998-480941/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BITT-) BITTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-OCT-1996;
27-NOV-1996;
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burners AAV60731-V60732 were used to PCR amplify codous 1-149 of the human cyclin-dependent kinase 2 (hCDX2) gene. The amplified product was used to generate a fusion protein compusising part of the hCDX2 sequence linked to codons 154-302 of the yeast PHO85 gene. The fusion protein is used to screen for compounds that affect mammalian cell cycle regulatory proteins. The method comprises administering a compound to a cell line, which contains a reporter gene linked to an Upstream Activation Sequence (UAS) and a promoter, where the UAS binds a transcription control factor (TCF) which is regulated through cyclin/cyclin-dependent kinase (CDK) phosphorylation. Also included in the construct is an effector gene providing a gene product to permit normal cyclin/CDK regulation of the TCF. Expression of the reporter gene is then analysed in the cell line, the method can be used to identify inhibitors and activators of mammalian cell cycle regulatory proteins, especially inhibitors and activators of cyclin/CDK/CKI complexes. The identified agents can be used for stimulating growth of cells (as in wound healing), or regulating coccessive cell growth and division (as in cancer therapy)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antisense oligonucleotide; phosphorothioate; regulation;
malignant tumour; cell cycle expression; hyperproliferative disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; c-fos; c-jun; activating protein 1; AP-1; diagnosis; metastasis;
                                                 Screening for agents that effect cell cycle regulatory proteins - u cell line that expresses a reporter gene in response to regulation through phosphorylation by a cyclin/CDK system.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human c-fos protein antisense oligonucleotide #20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 4 A; 5 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1031 CTGACTTTGGCCTGGCCCGA 1050
                                                                                                                      Example 4; Page 70; 93pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dean NM, Mckay R, Miraglia L,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16; Conservative
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                 WPI; 1998-251302/22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
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modified_base
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Matches
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Location/Qualifiers

Baker B;

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                                                                                         Antisense oligonucleotides regulating Activating Protein 1 subunits - hybridise with c-fos and c-jun mRNA, used for regulating metastasis, cell cycle expression and hyperproliferative disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA specific for Multiple Tumour Suppressor IEI-beta gene - are useful for the diagnosis of cancers related to MTSIEI-beta mutation(s) and their treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MTS1; MTS1E1-beta; multiple tumour suppressor; diagnosis; cancer; germ-line mutation; familial melanoma locus; MLM; predisposition; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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80.0%; Pred. No. 9.3e+02;
rative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   with, or being prone to, a hyperproliferative disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 0 A; 9 C; 6 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            725 AAGAGGGGCACCCTGCACC 744
                                                                                                                                                                                                                         Claim 5; Page 74; 120pp; English
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94US-00215086.
94US-00215087.
94US-00227369.
94US-00251938.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity 80.0 es 16; Conservative
                               WPI; 1998-609906/51
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18-MAR-1994;
14-APR-1994;
01-JUN-1994;
17-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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PR 18-1

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Gaps

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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; iive 0; Mismatches 4; Indels

Example 12; Col 85-86; 72pp; English.

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Gaps

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Genetic proximity; gene expression; cell characterisation; homeobox gene; genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR; kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
                                Primers AAV11260-V11266 are used in the isolation of the human multiple tunmour suppression proteins, MTS1 and MTS1B1-beta. The MTS gene locus is also referred to as the familial melanoma (MLM) gene locus, located on human chromosome 9921. Germ line mutations in MTS genes can be used in the diagnosis of predisposition to cancers, e.g. melanoma, leukaemia, astrocytoma, gliboblastoma, lymphoma, glioma, Hodgkin's lymphoma, CLL, and cancers of the pancreas, breast, thyroid, ovary, uterus, testis, kidney, stomach and rectum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell, (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for detecting expressing an individual, e.g. a fetus are the cell. They can also be used for obtaining cells capable of expressing an homeobox related desired
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                                                                                                                                                                                                                                               Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                           Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                           505 GAGGCTACCTGGAGAGCT 524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; Page 46; 102pp; English,
                                                                                                                                                                                                                                                                                                                                                               20 GAAGGCTTCCTGGACACGCT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ВЪ
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98IL-00126627.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PTK 19 gene specific primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAZ18169 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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Homo sapiens.
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16-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer; ss
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The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell; (b) determining in the first cell and the second cell; (c) determining in the first cell and the second cell; (d) determining in a selected gene family; and (c) calculating a positive first cell and the second cell the pattern of expression of genes in a selected genetic defect or characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is transformed. They can be used for determining the effect of a selected treatment on a test cell. They can also be used for obtaining cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AAZ17803-Z18342 represent primers that can be used
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property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AA217803-218342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, P450 enzyme genes, steroid receptor superfamily genes or cadherin superfamily genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Genetic proximity, gene expression, cell characterisation, homeobox gene, genetic defect, reverse transcriptase polymerase chain reaction, RT-PCR, kinase gene, protein phosphatase, P450, steroid receptor, cadherin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying and characterizing cells by comparing the pattern of gene expression in a selected gene family.
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                                                                                                                                                                                                   0.8%; Score 13.6; DB 1; Length 20;
30.0%; Pred. No. 9.3e+02;
Ive 0; Mismatches 4; Indels
                                                                                                                                                            Sequence 20 BP; 3 A; 4 C; 8 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                   1024 AAGCTGGCTGACTTTGGCCT 1043
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                                                                                                                                                                                                                                                                                                                       AAGCTCGGGGACTTTGGGCT 20
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98IL-00126627
                                                                                                                                                                                                                        80.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PTK 18 gene specific primer.
                                                                                                                                                                                                                                                                                                                                                                                                                       AAZ18167 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                             Conservative
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                                                                                                                                                                                                                      Local Similarity
nes 16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 primer; 88.
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                                                                                                                                                                                                                                             Matches
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Sequence 20 BP; 3 A; 4 C; 8 G; 5 T; 0 U; 0 Other; superfamily genes or cadherin superfamily genes

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Gaps

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The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell; (b) determining in the first cell and the second cell; (b) determining in a selected gene family; and (c) calculating a of proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is transformed. They can be used for determining the origin of a cell, its can individual, e.g. a fetus. They can also be used for detecting a selected genetic defect in containing cells capable of expressing an homeobox related dealred for obtaining cells capable of expressing an homeobox related dealred containing the pattern of gene expression in a selected gene family. Sequences AALT803-Z18342 repressint primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, P450 enzyme genes, steroid receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Genetic proximity; gene expression; cell characterisation; homeobox gene; genetic defect; reverse transcriptase polymerase chain reaction; RT-FCR; kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, P450 enzyme genes, steroid receptor superfamily genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying and characterizing cells by comparing the pattern of gene expression in a selected gene family.
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                                                                                                                              Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                            Sequence 20 BP; 3 A; 4 C; 8 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                            1024 AAGCTGGCTGACTTTGGCCT 1043
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                                                                                                                                                                                                                                    AAZ18165 standard; DNA; 20 BP.
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                                                                                                                                    0.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            PTK 17 gene specific primer.
                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                              Query Match
Best Local Similarity 80.0%
Matches 16; Conservative
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P-PSDB; AAY14700.
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                                                                                                                                                                                                                                                                                                              RESULT 1233
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                                                                                                                                                                                                                                                                                                      PAG; pregnancy associated glycoprotein; cattle; diagnosis; PCR; primer;
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                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
htive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                         Pregnancy associated glycoprotein (PAG) reverse primer B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 1 A; 5 C; 4 G; 10 T; 0 U; 0 Other;
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                                                                    1024 AAGCTGGCTGACTTTGGCCT 1043
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98US-0106188P.
                                                                                                                                                                               AAZ20188 standard; cDNA; 20
                                                                                                                                                                                                                                                05-JAN-2000 (first entry)
                      Local Similarity 80.0 nes 16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UMOR ) UNIV MISSOURI.
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28-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                   AAZ20188;
          Query Match
                                                                                                                                                     RESULT 1234
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RESULT 1235

Clark J;

schultz621-3.rng

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The present invention describes two gamma-amino-butyric acid (GABA) B receptor (GABARR) subunits designated HG20 and GABABRIa. Cells expressing the new receptor subunits are useful for identifying GABABR agonists and antagonists. HG20 proteins and their antagonists are useful for inhibiting HG20 or GABABR function, useful for treating depression, eighlepsy, neuropsychiatric disorders, dementias, muscular contractions, and central nervous system disorders. The present sequence represents a PCR primer for human HG20, which is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human, iPFK-2; cancer malignancy diagnostic assay; inflammatory disease;
inducible phosphofructokinase-2; tumour; malignant cancer; diagnosis;
therapy; cancer; ss.
                                                                                                                                                                                                                                                                                                      New DNA encoding human and murine receptor subunits, useful for identifying agonists and antagonists for treatment of depression, epilepsy and neuropsychiatric disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ative 0; Mismatches 4; Indels
                                                                                                                                                                                                                Ng GYK, Kolakowski LF,
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                                                                                                                (MERI ) MERCK & CO INC.
(MERI ) MERCK FROSIT CANADA INC.
(UTYTE-) UNIV TEXAS HEALTH SCI CENT SAN ANTONI.
(USSH ) US NAT INST OF HEALTH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human iPFK-2 antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                  Example 22; Page 85; 128pp; English.
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                                                                                                                                                                                                              Bonnert TP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (PICO-) PICOWER INST MEDICAL RES.
(CHES/) CHESNEY J.A.
(MITC/) MITCHELL R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20 AGGCACAGCTGGAAACTGTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX58122 standard; DNA; 20 BP
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                                                                                98US-0073767P.
                                            99WO-US002361.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 80.0
les 16; Conservative
                                                                                                                                                                                                                                                                  WPI; 1999-527300/44.
                                                                                                                                                                                                                Mcdonald T,
                                            03-FEB-1999;
                                                                                05-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-OCT-1998;
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        12-AUG-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-MAY-1999.
                                                                                                                                                                                                              Liu Q, Mcd
Bonner II;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bucala RJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX58122;
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gamma-amino-butyric acid B receptor subunit; HG20; GABABR1a; depression;
epilepsy; neuropsychiatric disorder; dementia; muscular contraction;
central nervous system disorder; PCR primer; ss.
                                                                                                                                                                    Human; raf; diagnosis; abnormal proliferative state; hyperproliferation;
cancer; psoriasis; blood vessel restenosis; c-raf kinase; antisense; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Oligonucleotides targeted to human raf mRNA useful for treating and diagnosing abnormal proliferative states and inhibiting raf expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention provides antisense oligonucleotides targeted to mRNA encoding human raf and capable of inhibiting raf expression. The antisense oligonucleotides are useful for treating and diagnosing abnormal proliferative states and hyperproliferation (e.g. cancer, psoritasis, or blood vessel restences), and inhibiting raf expression. Sequences AAZ11511-537 and AAZ11555-573 represent antisense oligonucleotides for human c-raf kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human GABA B receptor subunit HG20 PCR primer ngflt7-.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 5 A; 4 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                            Human c-raf kinase antisense oligo ISIS # 5149.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure, Col 9; 29pp; English.
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                      BP.
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95WO-US007111.
AAZ11521/c
ID AAZ11521 standard, DNA, 20
XX
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AAZ07001 standard; DNA; 20
                                                                                          (first entry)
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Best Local Similarity 80.0°
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Monia BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1999-527018/44.
                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                            31-MAY-1994;
31-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                          26-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
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                                                                                          05-NOV-1999
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                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Boggs RT,
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                                                        AAZ11521;
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RESULT 1236

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invention relates to a cancer malignancy diagnostic assay for determining the presence of inducible phosphoftructokinase-2 (ippR-2) specific sequences in a sample of a body or tumour fluid or tissue. The assay comprises obtaining a sample of a body or tumour fluid or tissue and performing a sequence identity assay to look for the presence of ippR-2 specific sequences. The method is useful for diagnosis of malignant of ancer by detecting the presence of iPFR-2 specific sequences. Antisense iPFR-2 injouncebotides are useful for treatment of cancer and inflammatory disease. Antagonists of iPFR-2, such as an iPFR-2 enzyme inhibitor or anti-iPFR-2 antibody are also useful for treatment of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This sequence represents a human iPFK-2 antisense oligonucleotide. The invention relates to a cancer malignancy diagnostic assay for determining the presence of inducible phosphofructokinase-2 (iPFK-2) specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human, iPFK-2; cancer malignancy diagnostic assay, inflammatory disease, inducible phosphofructokinase-2; tumour; malignant cancer; diagnosis;
                                                                                                                                                This sequence represents a human iPFK-2 antisense oligonucleotide. The
                                                    Cancer malignancy diagnostic assay useful for diagnosis of malignant cancer and, in treatment of cancer and inflammatory disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cancer malignancy diagnostic assay useful for diagnosis of malignant cancer and, in treatment of cancer and inflammatory disease.
                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
0.8%; Score 13.6; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 9.3e+02;
Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 3 A; 8 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human iPFK-2 antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1679 CCAACTACATCTTCCCTGCT 1698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 4; Page 10; 41pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 ccaacecarcrrcececr 20
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                                                                                                           Claim 4; Page 13; 41pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAX58144 standard; DNA; 20 BP.
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                                                                                                                                                                                                                                                                                                                                                       and inflammatory disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CHES/) CHESNEY J.A.
MITC/) MITCHELL R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     therapy; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-313301/26.
                WPI; 1999-313301/26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
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sequences in a sample of a body or tumour fluid or tissue. The assay comprises obtaining a sample of a body or tumour fluid or tissue and performing a sequence identity assay to look for the presence of iPFK-2 specific sequences. The method is useful for diagnosis of malignant cancer by detecting the presence of iPFK-2 specific sequences. Antisense inflammatory disease. Antagonists of iPFK-2, such as an iPFK-2 enzyme inflammatory disease. Antagonists of iPFK-2, such as an iPFK-2 enzyme and inflammatory disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV74237-V74253 are oligodeoxynuclectide (ODN) primers used to describe a method for enhancing the immunostimulatory effect of an antigen encoded by nucleic acid construct. The method involves determining the CpG-N and CpG-S motifs present in the construct, removing neutralising CpG (CpG-N) motifs and optionally inserting stimulatory CpG (CpG-N) motifs in the construct, thereby producing a nucleic acid construct having enhanced immunostimulatory efficacy. The method can be used for immunisation against viral antigens, e.g. from hepatitis B virus (HBV), bacterial antigens or an antigen derived from a parasite. They can also be used for expression of a therapeutic polypeptide, e.g. growth factors, toxins, tumour suppressors, cytokines,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CpG-N motif; immunostimulation; antigen; CpG-S motif; immunisation; ODN; viral antigen; bacterial antigen; parasite; therapeutic; growth factor; toxin; tumour suppressor; cytokine; apoptotic protein; interferon; hormone; clotting factor; liqqand; receptor; oligodeoxymucleotide; se.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - for
the
                                                                                                                                                                                                                                                                     0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Use of neutralising CpG and stimulating CpG motifs in DNA vectors enhancing the immunostimulatory effect of an antigen or enhancing expression of a therapeutic polypeptide.
                                                                                                                                                                                                                            0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ative 0; Mismatches 4; Indels
                                                                                                                                                                                           Sequence 20 BP; 4 A; 5 C; 8 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wu T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; Page 64; 109pp; English.
                                                                                                                                                                                                                                                                                                          1679 CCAACTACATCTTCCCTGCT 1698
                                                                                                                                                                                                                                                                                                                                             20 ccaacecarcricececr 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Schorr J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98WO-US010408.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CpG-N motif O-ODN 2001 DNA.
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                                                                                                                                                                                                                                                Local Similarity 80.0
nes 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (revised)
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15-MAR-1999
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AAV74294/

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Oligonuclectides AAV70607-11 were used to isolate nucleic acid encoding a murine multiple tumour suppressor IEI-beta (MTSIEI-beta) protein. Primers designed from the gene can be used to design primers to detect abnormalities i.e. polymorphisms which may predispose towards malignancies such as melanoma, leukaemia, astrocytoma, lymphoma, glioma, as well as tumours of e.g. the breast, thyroid, pancreas, uterus and kidneys. (Updated on 20-MAR-2003 to correct PR field.) (Updated on 20-MAR-2003 to correct PR field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Vaccine, eye disease, conventional trachoma, nonendemic trachoma; paratrachoma, inclusion conjunctivitis, genital disease, perihepatitis; nongonococcal uretritis, epidymitis, cervicitis, salpingitis; PCR primer; bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse multiple tumour suppressor gene segment - useful for primer design.
                                                                               Human; multiple tumour suppressor 1 gene; MTS1; cancer; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer used to amplify an ORF of Chlamydia trachomatis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4; Indels
                                               PCR primer used to isolate murine MST1E1-beta gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%; Score 13.6; DB 1;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 13; Col 53; 80pp; English.
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                                                                                                                                                                                                                                                                             95WO-US003316.
                                                                                                                                                                                                                                                                                                                                  (MYRI-) MYRIAD GENETICS INC
                                                                                                                                                                                                                                                                                                                                                                    Jiang P, Kamb A, Stone S;
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                (first entry)
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Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
Chlamydia trachomatis.
 (revised)
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20-MAR-2003
03-FEB-1999
                                                                                                                                                                                                                                                                             17-MAR-1995;
07-JUN-1995;
                                                                                                                                                                         US5843756-A.
                                                                                                                                                                                                             01-DEC-1998
                                                                                                                        Synthetic.
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                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                           ICAM-1; intercellular adhesion molecule-1; antisense; primer; prevention; perfusion injury; transplantation; pre-operative treatment; donor; organ;
apoptotic proteins, interferons, hormones, clotting factors, ligands and receptors. (Updated on 20-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Use of antisense oligonucleotide against ICAM-1 - for preventing perfusion injury during transplantation of e.g. kidney, heart, lung or pancreas.
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conservative 0; Mismarch...
                                                                                    0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                      Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DELB-) DELBRUECK CENT MOLEKULARE MEDIZIN MAX.
                                                                                                                                                                                                                                                                                                                                                                                             ICAM-1 antisense oligonucleotide primer #2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97DE-01045666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97DE-01028923
                                                                                                                                                                                                                                                                                     AAV74294 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                             l Similarity 80.0
16; Conservative
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Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DE19745666-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
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                                                                                                                                                                                                                                                                                                                       AAV74294;
                                                                                          Query Match
Best Local
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Gaps

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Length 20;

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PCR primers AAZ01426-Z06209 were used to amplify open reading frames (ORFS) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs encode polypeptides (see AAY36754-Y37949) which can be used as vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases can also conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as nongoncoccal ucetritis, preumopathy in breast feeding infants; and venereal lymphogranulomatosis. The polypeptides of the invention may be of use in treating these
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 6 A; 7 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                       Genome sequence of Chlamydia trachomatis,
                                                                                                                                                                                                                        Disclosure; Page 1536; 1755pp; English.
 97FR-00015041.
97FR-00016034.
98US-0107077P.
                                                                                                                                                   WPI; 1999-371125/31.
                                                                          (GEST ) GENSET
28-NOV-1997;
17-DEC-1997;
04-NOV-1998;
                                                                                                            Griffais R;
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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ive 0; Mismatches 4; Indels Conservative Similarity 16; Query Match Local Best Loca Matches

AAZ01495 standard; DNA; 20 (first entry) 07-OCT-1999 AAZ01495; RESULT 1243 AAZ01495 H X X B X B

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PCR primer used to amplify an ORF of Chlamydia trachomatis.

Vaccine, eye disease; conventional trachoma; nonendemic trachoma; paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis; nongonococcal uretritis; epidymitis; cervicitis; salpingitis; PCR primer; bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.

Chlamydia trachomatis

WO9928475-A2

10-JUN-1999.

98WO-IB001939 27-NOV-1998;

97FR-00015041. 97FR-00016034. 98US-0107077P. 28-NOV-1997; 17-DEC-1997; 04-NOV-1998;

GEST ) GENSET

Griffais R;

WPI; 1999-371125/31

Genome sequence of Chlamydia trachomatis.

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PCR primers AAZ01426-Z06209 were used to amplify open reading frames coRFs of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs encode polypeptides (see AAX36754-Y37949) which can be used as vaccines against Chlamydia trachomatis. Antiennes and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as nongonococcal uretritis, paratrachoma, paratrachoma, paratrachoma, paratrachoma, paratrachoma, inclusion epidymitis, cervicitis, salpingitis, perimpatitis, bartholinhtis; prehemopathy in breast feeding infants; and venereal lymphogramulomatosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 2 A; 4 C; 6 G; 8 T; 0 U; 0 Other;
                          Disclosure; Page 1447; 1755pp; English.
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CGCG 106

87 CGGCTCTGAGGTTGC

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Matches

PCR primer used to amplify an ORF of Chlamydia trachomatis. crecirieaddricarcred 20 ВР. AAZ05818 standard; DNA; 20 (first entry) 07-0CT-1999 AAZ05818; RESULT 1244 AAZ05818/c 셤

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Gaps 0;

Vaccine, eye disease, conventional trachoma, nonendemic trachoma, paratrachoma, inclusion conjunctivitis, genical disease, perihepatitis, nongonococcal utetritis, epidymitis; cervicitis; salpingitis; PCR primer; bartholinitis; pneumopathy, venereal lymphogranulomatosis; ss. Genome sequence of Chlamydia trachomatis. Disclosure; Page 1802; 1755pp; English 97FR-00015041. 97FR-00016034. 98US-0107077P. 98WO-IB001939 Chlamydia trachomatis. WPI; 1999-371125/31. (GEST ) GENSET 27-NOV-1998; 28-NOV-1997; WO9928475-A2 17-DEC-1997; 04-NOV-1998; 10-JUN-1999 Griffais R; Synthetic. 

PCR primers AAZ01426-206209 were used to amplify open reading frames (ORFs) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs encode polypeptides (see AAY36-74.73799) which can be used as vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, eg. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as nongonococcal uretritis,

Target, antisense, selective rank, inhibition; ranking, stability, interaction, intercellular adhesion molecule, ICAM; ss.

Location/Qualifiers

misc\_feature

Synthetic.

Antisense oligonucleotide ISIS#1939 targeted to ICAM-1.

(first entry)

30-MAR-1999

AAX00531;

standard; DNA;

AAX00531

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RESULT 1246
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primers AAZ01426-Z06209 were used to amplify open reading frames (ORFs) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs accode polygeptides (see AAX36754-737949) which can be used as vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as nongonococcal usetriis, peneumopathy in breast feeding infants; and venereal lymphogranulomatosis.
                                                                                                                                                                                                                                                                                                                                                                                                    Vaccine, eye disease, conventional trachoma; nonendemic trachoma; paratrachoma; inclusion conjunctivitis; genital disease, perihepatitis; nongonococcal uretritis; epidymitis; cervicitis; salpingitis; PCR primer; bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.
                pneumopathy in breast feeding infants; and venereal lymphogranulomatosis.
The polypeptides of the invention may be of use in treating these
                                                                                                                                         Gaps
cervicitis, salpingitis, perihepatitis, bartholinitis;
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0
                                                                                                      0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ative 0; Mismatches 4; Indels
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                                                                          Sequence 20 BP; 2 A; 12 C; 1 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genome sequence of Chlamydia trachomatis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure, Page 1536, 1755pp; English.
                                                                                                                                                                      1636 AGGCAGCGGCTGGAGGGATG 1655
                                                                                                                                                                                                    AAZ02583 standard; DNA; 20 BP
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                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chlamydia trachomatis.
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                                                                                                                       Local Similarity
nes 16; Conserv
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17-DEC-1997;
04-NOV-1998;
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   epidymitis,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                            AAZ02583;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Selectively ranking nucleic acid molecules, for inhibitory efficiency comprises determining the fraction a set of nearest-neighbour nucleic acid base pair types in a target sequence zone, substituting nearest-neighbour nucleic acid base pair fractions to determine the fractions and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nucleic acid oligomer binding interactions to select sequence zones
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/trag= a
/note= "contains phosphorothioate internucleotide
linkages"
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Matches 16; Conservative
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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; 7ative 0; Mismatches 4; Indels

Conservative

Query Match Best Local Similarity Matches 16; Conserv

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CE Primers AAZ10708-33 were used to amplify exons I to 11 of human HKNG1 (Hong Kong new gene 1). HKNG1 is a gene associated with bipolar affective disorder (BAD). HKNG1 polymotleotides are useful to identify compounds modulating HKNG1 gene expression or trivible to the compounds of the compounds inhibiting or enhancing HKNG1 gene expression or activity. Compounds inhibiting or enhancing HKNG1 gene expression or activity. Compounds inhibiting or enhancing HKNG1 gene expression or activity in individuals can then be administered therapeutically to treat HKNG1 mediated disorders, especially neuropsychiatric disorders e.g. BAD, schizophrenia, or HKNG1-mediated myopia disorders, such as early-onset autocominant wyopia. The polymicleotides can be used in gene therapy techniques to treat such disorders. They are also useful in diagnosis to identify individuals having, or at risk of developing, HKNG1 especially result in the production of a protein with a different sequence to the human full-length HKNG1 polypeptide or splice variant sequence to the human full-length HKNG1 polypeptide or splice variant to sequence to the human full-length HKNG1 polypeptide or splice variant cresidue 202 or 184. The polymucleotides are also useful in gene mapping, to produce probes or primers to identify similar sequences (e.g. mutants to be sequences from different species) and to produce transgenic animals
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alpha-7 neuronal nicotinic acetylcholine receptor; schizophrenia;
HKNG1; Hong Kong new gene 1; bipolar affective disorder; BAD; neuropsychlatric disorder; early-onset autosomal dominant myopia; schizophrenia; splice variant; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New HKNG1 polymucleotides useful in diagnosis and treatment of neuropsychiatric disorders, e.g. bipolar affective disorders and
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30.0%; Pred. No. 9.3e+02;
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98US-0088312P.
98US-0106056P.
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(REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chen H, Freimer NB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-562047/47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  schizophrenia.
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                                                                                                                           Homo sapiens.
                                                                                                                                                                       WO9947535-A1
                                                                                                                                                                                                                                                                16-MAR-1999;
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22-JAN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20
                                                                                                     Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAX56166,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                primers AAX21344-X21345 were used to PCR amplify a 375 bp fragment of the apolipoprotein E gene. The invention relates to the diagnosis of Alzheimer's disease (AD) by detecting one or more mutations, in the genomic region that regulates expression of the apolipoprotein E (apo E), that results in: (a) altered sene expression relative to a control population, or (b) altered relative expression of the alleles of apo E. Alternatively AD is detected by determining the levels of epsilon-2, -3 or -4 alleles or mutations in the Thi/E47cs sequence (a polymorphism in the promotter region). The T allele of Thi/E47cs is associated with increased risk of AD (independently of the effect of the epsilon allele) and increases the risk associated with epsilon 4 in epsilon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Diagnosing Alzheimer's disease - by detecting mutations in the regulatory region of the apo E gene, or levels of apo E allele expression.
                                                                                                                                                                                                                                                                                   Primer; PCR; amplification; apolipoprotein E; human; brain; diagnosis; Alzheimer's disease; mutation; gene expression; polymorphism; promoter; allele; heterozygote; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
.ive 0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                               Primer #2 for amplifying apolipoprotein E gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (INSP ) INST PASTEUR LILLE.
(INRM ) INSERM INST NAT SANTE & RECH MEDICALE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chartier-Harlin M, Lambert J, Amouyel P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      699 ACTCAAGGAGATCAGACTGG 718
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP
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                                                                                                            AAX21345 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4/epsilon 3 heterozygotes
                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1999-106073/09.
                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-JUN-1998;
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14-JAN-1999

Synthetic.

AAX21345;

RESULT 1247 AAX21345

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Gaps

AAZ10728;

XEXEXEX

RESULT 1248

AAZ10728/

Query Match

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Page 594

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                                                                                                                                                                                                                                                                                                   The present invention describes an isolated nucleotide sequence (I) encoding at least a portion of the human alpha-7 neuronal infoctinic encoding at least a portion of the human alpha-7 neuronal infoctinic encoded by (I); (2) a vector comprising (I); (3) a host cell transformed with a vector of (2); (4) a polymucleotide comprising at least 15 nucleotides which hybridises under stringent conditions to at least a portion of (I); (5) a method for detection of a polymucleotide encoding alpha 7-hahchr in a biological sample; and (6) a method for amplification of nucleic acid from a sample suspected of containing nucleic acid conding alpha 7-hahchr. The primers and probes from the present encoding alpha 7-hahchr. The primers and probes from the present suspected of suffering from schizophrenia, small cell lung carcinoma, breast cancer and nicotine-dependent illness. This is particularly useful for dagnosis of schizophrenia, other illnesses that can be table structularly useful structularly and Angelman's syndromes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tumour necrosis factor alpha; TNF-alpha; antisense oligonucleotide; ASO; inhibition; expresssion; treatment; disease; disorder; ss.
small cell lung carcinoma, breast cancer; nicotine-dependent illness; epilepsy; juvenile myoclonic epilepsy, Prader-Willi syndrome; Angelman's syndrome; PCR primer; 8s.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                            Human alpha-7 neuronal nicotinic acetylcholine receptor and related polynucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tumour necrosis factor alpha antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 8 A; 9 C; 1 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                  Claim 15; Page 63; 104pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  218 GCCTGGATGAGAGTGGTGGT 237
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                                                                                                                       98WO-US021762.
                                                                                                                                              97US-00956518.
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                                                                                                                                                                                                     Leonard S, Freedman R;
                                                                                                                                                                                                                           WPI; 1999-288306/24.
                                                                                                                                                                   (LEON/) LEONARD S. (FREE/) FREEDMAN R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                         15-OCT-1998;
                                                                                                                                              23-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO9901139-A1
                                                         Homo sapiens.
                                                                             WO9920757-A2
                                                                                                  29-APR-1999.
                                              Synthetic.
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Antisense oligonuclectides (ASO) for inhibiting a tumour necrosis factoralpha (TNP-alpha) gene in an animal, preferably a human, comprise 12-50 nucleotides, 90% of which are complementary to a region of mRNA containing a GGGA sequence motif. The ASO is used to inhibit expression of a gene in an animal and for treating the animal when afflicted with a sissase or disorder characterised by the presence of an mRNA from a gene containing a GGGA motif. The ASO are specifically targeted to a GGA sequence motif found in mRNA from a gene. A study of known ASO has shown that at least half of the most effications ASO's contain one or more TCC motifs. This ASO comprises a TCCC motif followed by a cytosine residue and corresponds to a region of the human ICAM-1 3' untranslated region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine; neutralising epitope; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                         Generation of antisense oligonucleotides - by specifically targeting a GGGA motif found in mRNA sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; Page 37; 55pp; English.
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                                                                                                                                                                                                    (UYJE-) UNIV JEFFERSON THOMAS
                                                                      98WO-US013711.
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                                                                                                                                                                                                                                                                                                                                          WPI; 1999-105767/09.
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                                                                                                                                                                                                                                                                           Tu G, Israel Y;
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                                                                  02-JUL-1998;
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                                                                                                                                     03-JUL-1997;
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14-JAN-1999
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Synthetic
                    AAX92771;
                  RESULT 1252
AAX92771/c
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Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                      AAX94323 standard; DNA; 20 BP.
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                                     Query Match
Best Local Similarity 80.0%;
Matches 16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       epitope of C. pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chlamydophila pneumoniae.
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Best Local Similarity
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                                                                                                                                                                                                                                                                                              AAX94323;
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AAX94068/c
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                                                                                                                                                                                                                 RESULT 12
AAX94323/
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                                                                                                                                                         엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae lesses are properties of Chlamydia pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see ANY3584- ANY35879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae mucleotides sequences can also be used as immunogenic compositions, especially where the vector directs the expression of a neutralising epitope of C. pneumoniae
                                                                                                                                                                                                                                                                                                                                                          ô
                                       AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae and bax31990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent cittis media, erythema nodosum or pharyngitis. The polypetides encoded by the open reading frames of the C. pneumoniae genome (see AAX34584-AAX35879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae especially where the vector directs the expression of a neutralising epitope of C. pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine; neutralising epitope; PCR primer; ss.
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                                                                                                                                                                                                                                                                                                              0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
.ive 0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                             Sequence 20 BP; 5 A; 4 C; 6 G; 5 T; 0 U; 0 Other;
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        Page 1787; Disclosure; 1912pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                 953 GCCACCGCCAGAAGGTGCTA 972
                                                                                                                                                                                                                                                                                                                                                                                                                                       1 GCTATCGGCAGATGATGCTA 20
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98US-0107078P.
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Best Local Similarity 80.09
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AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent othis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAY34584 - AAY35879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae especially where the vector directs the expression of a neutralising
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    RACE nested primer for murine DKR-3 cDNA synthesis.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-293153/25.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-SEP-1998;
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                                                                                                                                                                                                                                    Query Match
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1 AACATGCAGCGGCTCGGGGG 20

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The invention relates to the isolation of the gene encoding the human multiple tumour suppressor 1 (MTS1) (AAA95633). The MTS1 protein has a cytostatic activity and is used in protein replacement therapy. This sequence is a PCR primer used to isolate the mouse pl6 gene (a homologue of the MTS1 gene). MTS1 is useful in diagnosing human cancers such as (ocular) melanoma, leukemia, astrocytoma, glioblastoma, lymphoma, glioma, Hodgkin's lymphoma, multiple myeloma, sarcoma, myosarcoma, cholangiocarcinoma, squamous cell carcinoma, CLL, and cancers of pancreas, breast, stomach, brain, proteter, bladder, thyroid, ovary, uterus, testis, kidney, colon and rectum. The MTS1 gene and protein is useful in gene therapy, protein replacement therapy and protein mimetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel protein composition useful in protein replacement therapy for diagnosing and treating cancer comprises a specific weight percent of human multiple tumor suppressor 1 polypeptide.
                                                                                                                                                              Cytostatic; human; multiple tumour suppressor 2; MTS2; diagnostic; cancer; gene therapy; protein replacement therapy; ss; mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           . Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; les 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 12; Col 51; 72pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             505 GAGGCTACCTGGAGAAGCT 524
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94US-00227369.
94US-00251938.
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                                  AAA95656 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                     95US-00480810.
                                                                                                                                                                                                                                                                                                           97US-00986515
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (MYRI-) MYRIAD GENETICS INC.
                                                                                               14-FEB-2001 (first entry)
                                                                                                                                Mouse P16 gene primer #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-514036/46.
                                                                                                                                                                                                                                                                                                           08-DEC-1997;
                                                                                                                                                                                                                                         US6090578-A.
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14-APR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                     07-JUN-1995;
                                                                                                                                                                                                                                                                          18-JUL-2000.
                                                                                                                                                                                                                                                                                                                                         18-MAR-1994;
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                                                                  AAA95656;
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AAZ57446/C
ID AAZ57446
XX
AC AAZ57446
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Kamb A;
                                                                                                                                                                                                               Mus sp.
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The present invention describes oligonuclectides containing bioreversible phosphate ester groups and their mimetics. The oligonuclectides are of value in therapeutics, diagnostics, and as research reagents The compound from the present invention may be used in control of hereditary, metabolic, and/or cellular processes in any organism utilising DNA-RNA transcription and/or RNA-protein translation. These organisms include prokaryotic and eukaryotic unicellular and multicellular organisms; including bacteria, yeasts, protozoa, algae, and all plants and higher andian forms, including warm blooded animals, particularly humans; also companal forms, including warm blooded animals, particularly humans; also animal forms, including warm blooded animals, particularly humans; also companalle sub-cellular translation and transcription processes. The new synthetic process provides pro-oligonucleotides, i.e., oligonucleotides by intracellular and intercellular enzymes to generate an active oligonucleotide, as for prototogs and drugs. By careful selection of protecting groups include 8-pivaloylmercaphocethyl (SPME) and of phosphate linkages can be achieved in the reaction sequence. Suggested specific groups include 8-pivaloylmercaphocethyl (SPME) and companylment organisms of (CCCH_2CO) and its analogue with a catechol biresidue replacing the oxygen atom (1,2-phenylenedioxy-diacetic acid). The present sequence in the exemplification
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                                                                                               Phosphorothioate; antisense oligonucleotide; triester oligonucleotide; bioreversible phosphate blocking group; therapeutic; diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligonucleotide bioreversible phosphate esters used as, e.g. research
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                                                                                                                                                                                                                                           /*tag= a
/note= "phosphorothioate linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                          Phosphorothicate oligonuclectide SEQ ID NO:5.
                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 5; Page 35; 61pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                99WO-US013141.
                                                                                                                                                                                                                                                                                                                                                                                                                       98US-00095822,
               10-APR-2000 (first entry)
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                                                                                                                                                                                                                       . .18
*tag=
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                                                                                                                                                                                                 Key
modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                       11-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Manoharan M,
                                                                                                                                                                                                                                                                                                 WO9964434-A1
                                                                                                                                                                                                                                                                                                                                         16-DEC-1999.
                                                                                                                                                          Synthetic.
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Peroxisome proliferators are agents that induce peroxisomal proliferation. Peroxisome proliferator-activated receptors (PPARS) are members of the steroid receptor superfamily, and are ligand-activated transcription factors. There are three mammalian subtypes of PPAR, alpha, beta (also known as delta) and gamma. The present invention relates to inhibiting angiogenesis by contacting PPAR gamma with a PPAR gamma characterised by excessive neovascularisation e.g. rheumatoid arthritis, psoriasis, atheroselerosis, diabetes, retinopathy, retrolental fibroplasia, neovascular glaucoma, age-related macular degeneration, fibroplasia, thyroid hyperplasias, Grave's disease, tissue transplantation, chronic inflammation, lung inflammation, endometriosis and obesity. The present sequence is a PCR primer for human PPARbeta
                                                                                                         neovascularisation; tumour growth; metastasis; rheumatoid arthritis; psoriasis; atherosclerosis; diabetes; retinopathy; PPAR; Human; retrolental fibroplasis; age-related macular degeneration; neovascular glaucoma; hemandaria, thyroid hyperplasis; Grave's disease; inflammatiobesity; transplantation; transcription factor; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Endocrine disruptor; dioxins; organic halocarbon; phenol; agrochemical; phthalate esters; aromatic hydrocarbon; organotin compound; oestrogen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Inhibiting angiogenesis comprises administration of PPAR gamma ligands for treating tumors, neovascularization and rheumatoid arthritis.
                                                                                       Peroxisome proliferator activated receptor; angiogenesis inhibition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
rative 0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Primer for p38 nucleotide sequence amplification.
                                                    Human PPARbeta gene reverse PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 5; Page 31; 52pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    128 ATCGGATGAAGAAGATCAAA 147
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                                                                                                                                                                                                                                                                                                                                 99WO-US027612.
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                   (first entry)
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les 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gerritsen ME, Xin XE;
                                                                                                                                                                                                                                                                                                                                                                                                                        (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-411807/35.
                                                                                                                                                                                                                                                         WO200030628-A2.
                                                                                                                                                                                                                                                                                                                                 18-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                    20-NOV-1998;
20-JAN-1999;
                                                                                                                                                                                                                        Homo sapiens
                   17-OCT-2000
                                                                                                                                                                                                                                                                                            32-JUN-2000.
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EXXXXXXXXX
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disruptor is new and comprises isolation of mRNA from cells, tissue or organism which have come into contact with the endocrine disruptor, and hybridismism which have come into contact with the endocrine disruptor, and hybridismism which have come into contact with the endocrine disruptor, and hybridisming it with a DNA array containing immobilized gene fragments from genes which may be affected by the endocrine disruptor. The results of the hybridisation are then compared with a comparison sample to catablish which genes have altered by the endocrine disruptors such as disruptor inso organic halocarbons, phenols, phthalate esters, aromatic hydrocarbons, agrochemicals, organotin compounds, oestrogens, mylex, toxaphene, aldicarb and kepones. The types of genes whose expression may be altered by these disruptors include those involved in nuclear receptor transcriptional coupling, kinase type signal transduction, gonad differentiation, receptor type kinases, intermediate filament markers, cell cycle and growth regulation, oncogenes and tumour suppression, and evelopment regulators, cell adhesion, motility and invasion, aniogenesis regulation, invasion regulation, cell-interaction, Rho family small GTPase regulation and growth factors and cytchines.

Completed sequences AAAS9772-AS9831 represent primers used to amplify the conceptor of all conceptors of genes which may be affected by an endocrine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
            nuclear receptor transcriptional coupling; gonad differentiation, intermediate filament marker; cell cycle; growth; regulation; oncogene; tumour suppressor; apoptosis; DNA damage response; cell adhesion; motility; angiogenesis regulation; invasion regulation; growth factor; cytokine; primer; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   mRNA from calls exposed to an endocrine disruptor is hybridized with a DNA array of gene fragments for detection of genes whose expression is altered by the endocrine disruptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
mylex; toxaphene; aldicarb; kepones; kinase signal transduction;
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Pred. No. 9.38+02;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                           Kimizuka F, Kato
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 5 A; 5 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer for mouse beta coding sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 3; Page 63; 81pp; Japanese.
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                                                                                                                                                                                                                                                                                                                                     (TAKI ) TAKARA SHUZO CO LID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                              Kondo A, Sagawa H,
                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-365642/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                             WO200026404-A1.
                                                                                                                                                                                                                                                                                               30-OCT-1998;
                                                                                                                                                                                                                                                           28-OCT-1999;
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                                                                                                                                                                                                                   11-MAY-2000,
                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disruptor
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This sequence is a PCR primer for DNA encoding mouse beta, protein which is homologous to the human MYSIBlbera protein. The invention relates to a method for diagnosing a polymorphism associated with a predisposition to cancer by detecting a germ-line alteration of a wild-type Multiple Tumour Suppressor (MYS) gene or its expression products in a human sample. The method comprises detecting a germ-line alteration of a wild-type MXS gene or its expression products in a human sample. The method comprises detecting a germ-line alteration of a wild-type MXS gene or its expression products in a human sample, the alteration indicating a predisposition to at least one of the cancers. The cancer is selected from melanoma, leukaemia, astrocytoma, glioblastoma, lymphoma, glioma, Hodgkin's lymphoma, chronic lymphocytic leukaemia (CLL), and cancers of the pancreas. Dreast, thyroid, ovary, uterus, testis, kidhey, stomach and rectum. The method may be used as the basis for developing very important diagnostic tests capable of predicting the predisposition to cancer. The MYS gene is involved in the progression of multiple tumour types and may provide means for a general anti-cancer therapy by virtue of its ability to suppress tumour growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
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MTS; human; polymorphism detection; cancer predisposition; astrocytoma; Multiple Thunour Suppressor gene; melanoma; leukaemia; glioblastoma; lymphoma; glioma; Hoddkin's lymphoma; chronic lymphocytic leukaemia; therapy; MTSIElbeta; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Diagnosing a polymorphism associated with a predisposition for cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; es 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR primer for human MTS1Elbeta 1 coding sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Skolnick MH, Cannon-Albright LA, Kamb A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 12; Col 50; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     505 GAGGGCTACCTGGAGAGCT 524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 daadecriccidaacacer 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                    94US-00214582.
94US-00215086.
94US-00215087.
94US-00227369.
94US-00251938.
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                                                                                                                                                                                                                                                                                                                                                                                        97US-00848251.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MYRI-) MYRIAD GENETICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11-FEB-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-070785/06
                                                                                                                                                                                                                                                                                                                                                                                        29-APR-1997;
                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                US5989815-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-JUN-1994;
17-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-APR-1994;
                                                                                                                                                                                                                                                                                                                    23-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ39994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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This sequence represents a PCR primer for the human multiple tumour suppressor IEIbeta (MTSIEIbeta) coding sequence. The invention relates to the human MTS2 DNA and protein sequences. The DNA sequences are useful to diagnosing or determining a predisposition to cancers e.g. melanoma, leukaemia, lymphoma, glioma, Hoddxin's lymphoma and cancers of the pancreas, breast, thyroid, ovary, kidney, uterus and stomach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DBL gene; Duffy-binding like gene; ebl-1; Duffy Antigen Binding Protein; DABP; Sialic Acid Binding Protein; SABP; malaria; vaccine; immunisation; protozoacide; eba-175; PCR primer; ss.
                                                                                                                                                                                                                                                                                                  Multiple tumor suppressor cDNA, useful for diagnosing or determining a predisposition to cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Wellems TE, Miller LH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plasmodium DBL family conserved motif isolating primer UNIEBPSA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.38+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Peterson DS, Su X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (USSH ) US DEPT HEALTH & HUMAN SERVICES.
                                                                                                                                                                                                                                                                                                                                         Example 12; Col 50; 72pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       505 GAGGCTACCTGGAGAGCT 524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20 GAAGGCTTCCTGGACACGCT 1
                                                                                                                                          94US-00215086.
94US-00215087.
94US-00227369.
94US-00251938.
95WO-US003316.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAZ98298 standard; DNA; 20 BP.
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                                                                                                     95US-00486047.
                                                                                                                             94US-00214582
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                                                                                                                                                                                                                       (MYRI-) MYRIAD GENETICS INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity 80.03
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chitnis C,
                                                                                                                                                                                                                                                                        WPI; 2000-038259/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Plasmodium sp.
                        Homo sapiens.
                                                                                                                                                                  14-APR-1994;
01-JUN-1994;
17-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07-JUN-1995;
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                                                                                                   07-JUN-1995;
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                                                 US5994095-A.
                                                                          30-NOV-1999,
                                                                                                                             18-MAR-1994;
           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ98298;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
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                                                                                                                                                                                                                                                Kamb A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1265
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This sequence represents an antisense inhibitor of ICAM-1. The invention relates to a pharmaceutical composition comprises an oligonucleotide (ON)
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                                                                                                                                 Query Match
Best Local Similarity 55.6
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                             (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                         Mehta R, Hardee GE,
     WPI; 2000-194198/17.
                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-062467/05
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                                                                                                                                                                                                                                                                                                         20-MAY-1999;
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                                                                                                                                                                                                                  07-MAR-2000
                                                                                                                                                                                                                                                                                              25-NOV-1999
                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                        AAZ48638;
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                                                                                                                                                                                 RESULT 12
AAZ48638/
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admixed with a topical delivery agent. The compositions can be used for the delivery of a ribozyme, an external guide sequence, an antisense ON, on antisense peptide nucleic acid, an aptemer or a molecular decoy. The ONS can be used to modulate expression of a cellular adhesion protein or used to treat psoriasis. They can also be used to treat psoriasis. They can alignant melanoma, paget's disease, carcinoma, squamous cell carcinoma, malignant melanoma, paget's disease, carcinoma, squamous cell carcinoma, malignant melanoma, paget's disease, bacterial infections of the skin. They can be used to treat humans and primates, avians including chickens and turkeys, domestic household, of sprimates, avians including rats, mice, rabbits and guinea pigs, fish, reptiles and zoo animals. The compositions and methods may also be used to examine the function of various proteins and genes in vitro in the constant of the constant of the care of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; multiple tumour suppressor; MTS; somatic mutation; cancer; diagnosis; germ line mutation; gene therapy; cytostatic; melanoma; leukaemia; astrocytoma; glioblastoma; lymphoma; glioma; Hodgkin's lymphoma; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New vector useful for gene therapy of cancer associated with mu
tumor suppressor gene, comprises DNA sequence of multiple tumor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                            cultured or preserved dermal tissues and in animals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse P16 PCR primer SEQ ID NO:29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAGAGGGAAGTGGTGGGGG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAA39378 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              94US-00215086.
94US-00215087.
94US-00227369.
94US-00251938.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      80.08;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 80.0
Matches 16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-MAR-1994;
18-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-JUN-1995;
08-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12-SEP-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-JUN-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-APR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA39378;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAA393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  888888888888888888888888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                   The invention relates to ebl-1 polypeptides that are encoded by the DBL (Duffy-binding like) gene family. The ebl-1 proteins are substantially identical to the Duffy Antigen Binding Protein (DABP) and Sialic Acid Binding Protein (DABP), which are soluble proteins that appear in the culture supernatant after erythrocytes infected with malaria release merozoites. Immunochemical studies indicate that DABP and SABP are the respective ligands for Plasmodium viox and Plasmodium falciparum Duffy and sialic acid receptors on erythrocytes. The ebl-1 polypeptides may be used to vaccinate against malaria, especially caused by P. falciparum. Immunization with the polypeptide provides effective protection against malaria. Squences AAZ98297-304 represent primers used for isolating sequences encoding the conserved motifs of the DBL family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense inhibitor; oligonucleotide delivery agent; erythema multiformic expression modulator; cellular adhesion protein; malignant melanoma; cellular proliferation modification; toxic epidermal necrolysis; psoriasis; lichen planus; carcinoma; Paget's disease; Kaposi's sarcoma; pulmonary fibrosis; Lyme disease; infection; therapy; ICAM-1; ss.
                                                                                          Isolated protein binding domains from Plasmodium vivax and Plasmodium falciparum erythrocyte binding proteins useful for vaccinating against malaria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ő
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.8%; Score 13.6; DB 1; Length 20; 55.6%; Pred. No. 9.3e+02; tive 7; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tsai YJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 2 A; 4 C; 5 G; 2 T; 0 U; 7 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ecker DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ICAM-1 antisense inhibitor, ISIS-1939.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1630 CCCAGCAGCAGCGCTG 1647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ||::|::|:|||| |:|:
||ccsmgsmgscagcagyTs 18
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                                                                                                                                                                                                                    Example; Fig 3; 93pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ48638 standard; DNA; 20 BP
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mutation in

The present invention describes a vector (I) comprising an isolated DNA sequence of a multiple tumour suppressor (MTS) gene having a

Example 12; Col 51; 71pp; English.

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Gaps

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polynucleotide sequence of the human MTSIE1-beta. (I) is useful for introducing wild-type MTS function to a cancerous or pre-cancerous cell which carries diminished or mutant MTS alleles for suppressing neoplastic growth of the recipient cells. (I) is also useful for increasing the recipient cells. (I) is also useful for increasing the level of expression of MTS gene even in tumour cells in which the mutant gene is expressed at a normal level but the gene product is not fully functional. A host cell transformed with (I) is useful as a model system to study cancer remission and drug treatment which promotes such cemission. The present invention relates to somatic mutations and germ line mutations in the MTS gene and their uses in the diagnosis and prognosis of human cancer e.g. melanoma, leukaemia, astrocytoma, glioplastoma, lymphoma, glioma, Hodgkin's lymphoma, and cancers of the pancreas, breast, thyroid, ovary, uterus, testis, kidney, stomach and rectum. The present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antisense oligonucleotides for treating hepatitis and colon, liver or lung cancer are inhibitors of Fas, Fas ligand or Fas associated protein 1 (Fap-1) expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human, Fas; Apo-1; antisense compound; Fas ligand; Fap-1; hepatitis;
Fas associated protein 1; protein tyrosine phosphatase; cancer;
autoimmune disease; inflammatory disease; lymphoma; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antisense oligonucleotide directed against human Fas ligand gene.
                                                                                                                                                                                                                                                                                                                     0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ative 0; Mismatches 4; Indels
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/note= "2'-methoxyethoxy residues"
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                                                                                                                                                                                                                                                                                   Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                       505 GAGGGCTACCTGGAGAAGCT 524
20 GAAGGCTTCCTGGACACGCT 1
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                                                                                                                                                                                                                                                                                                                                  Local Similarity 80.0 tes 16; Conservative
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                                   AAC61821-19 represent antisense oligonucleotides which are directed against nucleid acids encoding human Fas Ilgand. The specification describes antisense compounds which are targeted to the 5'-untranslated region, translational start site, translational termination region or 3'-untranslated region of nucleic acid molecules encoding Fas, Fas Ilgand (FasL), or Fap-1 (Fas associated protein 1, protein tyrosine phosphatase). The antisense compounds are used to inhibit the expression of Fas, Rasio or Fap-1 in cells or tissues. They are used to traat autoimmune or inflammatory diseases such as hepatitis. They can also be used to treat cancer, especially colon, liver or lung cancer or lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human biallelic marker downstream amplification primer SEQ ID NO:11617.
                                                                                                                                                                                                                                                                                                                                                                   0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human genome, biallelic marker; high density disequilibrium map, genomic map, haplotype, phenotype; polymorphic base; genotyping; haplotyping; hybridisation, identification, characterisation; amplification, single nucleotide polymorphism; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                                                  y Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; nee 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                 Sequence 20 BP; 3 A; 10 C; 3 G; 4 T; 0 U; 0 Other;
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Example 3; Page 49; 116pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                             1659 CACCCCTCACAGGGCAGCCC 1678
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98US-0109732P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              map of the human genome.
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23-NOV-1998;
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Human, SHP-1; Src homology region 2-domain phosphatase; phosphorothíoate, cytosolic tyrosine phosphatase; antisense oligonucleotide; cancer; leukaemia; inflammation; infection; ss.
                                                                                                                                                                                                                                                                                                                    Novel antisense oligonucleotides for modulating the expression of human SHP-1, especially for treating a disease or condition associated with SHP
                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to antisense oligonucleotides which modulate the expression of human SHP-1 (Src homology region 2-domain phosphatase) a cytosolic tyrosine phosphatase. The invention includes antisense molecules AAA09644-A09683 which have modified phosphorothioate internucleoside linkages which target various regions of the SHP-1 gene. The oligonucleotides inhibit the expression of human SHP-1 in cells or tissues, and may be used to treat diseases or conditions associated with SHP-1 expression e.g. cancers, specifically leukaemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGP-3; tumour necrosis factor ligand; TNF ligand; Crohn's disease; type II transmembrane protein; B cell stimulatory factor; inflammatory disorder; immune disorder; rheumatoid arthritis; lupus and graft versus host disease; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer for murine cDNA encoding an AGP-3 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              210 GCAGATAGGCCTGGATGAGA 229
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                                                                                                                                                                99US-00358685.
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99US-0166271P.
                                                                                                                                                                                             99US-00358685.
                                                                                                                                                                                                                                                                                                                                                    -l expression, e.g. cancer.
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                                                                                                                                                                                                                          (ISIS-) ISIS PHARM INC.
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                                                                        Homo sapiens.
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                                                                                                     US6121047-A.
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pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOs 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention
                                                                                                                                                Gaps
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                                                                                                               Query Match

0.8%; Score 13.6; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 9.3e+02;
Matches 16; Conservative 0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                Primer #13 in invention relating to von Willebrand factor.
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                                                                                  Sequence 20 BP; 9 A; 0 C; 9 G; 2 T; 0 U; 0 Other;
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PCR primers AAA63936-37 were used to amplify cDNA encoding a murine AGP-3 polypeptide. AGP-3 is a tumour necrosis factor (TNF) ligand family member. AGP-3 is a type II transmembrane protein, and is a potent B cell stimulatory factor. Expression of AGP-3 correlates to increases in the number of B cells and immunoglobulins produced. AGP-3 proteins, antibodies, and nucleic acids may be used to treat inflammatory and immuno disorders, e.g. rheumatorid arthritis, Crohn's disease, lupus and graft versus host disease. The nucleic acids may be used to regulate the expression of an AGP-3 related protein. The AGP-3 proteins, antibodies and nucleic ands are also useful for the detection of AGP-3 agonists, antagonists and characterizing interactions with AGP-3 related proteins
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                                                                                                                                                            Novel polypeptides comprising tumor necrosis factor ligand family protein, useful for treating inflammatory and immune disorders, e.g. rheumatoid arthritis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ICAM-1 targetted phosphorothioate oligonucleotide ISIS 1939.
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                                                                                                                                                                                                                                                                                                   Disclosure; Page 36; 71pp; English.
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/*tag=
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                                                                                                 WPI; 2000-558217/51.
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                             Boyle WJ, Hsu H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modified base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-MAY-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAZ49337;
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XXX AAZ4
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This invention describes a novel method for determining the identity of a specific nucleotide at one or more defined sites in a target nucleic acid polymer involves formation of a detectable primer extension product if the specific nucleotide is present at the defined site in the target nucleic acid. The method is specifically used to detect point mutations which are associated with altered pathogenicity or resistance to therapy
                                                                                                 Sequences AAZ49336-Z49343 and AAZ49390 represent antisense oligonucleotides designed to modulate cellular adhesion. The invention relates to new compositions for the non-parenteral delivery of oligonucleotides comprising at least one oligonucleotide in an emulsion. Oligonucleotides delivered via the compositions of the invention can be used to modulate expression of a cellular adhesion protein, modulate a rate of cellular proliferation, or have biological activity against evikaryotic pathogens or retrovituses. They can be used for treating conditions including e.g., ulcerative colitis, Crohn's disease, inflammatory bowel disease or undue cellular proliferation. The compositions can enhance the local and systemic uptake and delivery of nucleic acids via non-parenteral routes of administration (e.g., via the alimentary canal, skin, eyes, pulmonary tract, urethra or vagina)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying the nucleotide at specific position in a target sequence for detecting disease-related point mutations involves extending a primer that binds adjacent to the specific site to incorporate a labeled deoxymucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gabe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Detection, primer extension, point mutation, pathogenicity, therapy; cancer, genetic disease, K-ras, human, PCR primer, mutation, ss.
e.g. antisense oligos, ribozymes, peptide nucleic acids, molecular decoys, external guide sequences or aptamers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 7; Col 17-18; 14pp; English.
                                                                 Claim 80; Page 37; 133pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         226 GAGAGTGGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20 chahacachaharachachacha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAZ44889 standard; DNA; 20 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9103-00656575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    90US-00482005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MOLE~) MOLECULAR TOOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Syvanen A, Soederlund HE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human K-ras PCR primer R6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-146544/13.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-FEB-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-FEB-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-JAN-2000.
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in a microorganism, particularly human immune deficiency virus or with cancer or a genetic disease (or susceptibility to it) in humans, but more generally can be used to detect mutations in RNA or DNA from animals, plants or microorganisms. By selecting a primer that binds adjacent to her specific site, variations at this site can be detected following incorporation of only a single dNTP. The method requires only a few, simple manipulations, making is suitable for routine use, and allows quantification of the proportion of mutated calls in a mixed population, down to 0.5% of this population. The method is easily automated. This sequence represents a PCR primer used to detect a mutation in the human K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Reverse transcription of mRNA species used for expression profiling of single cells by employing a first heeled primer to provide first strand cDNA species and then a second heeled primer population to generate
                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human glyceraldehyde-3-phosphate dehydrogenase forward PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human, expression profile, Three Prime End Amplification, TPEA, glyceraldehyde-3-phosphate dehydrogenase, PCR primer, ss.
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                                                                                                                                                                                                                                                                                           0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ttive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                       Sequence 20 BP; 3 A; 3 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Freeman TC, Richardson PJ, Dixon AK;
                                                                                                                                                                                                                                                                                                                                                                                 1311 GACATACAACTACCCCAAGT 1330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 29; SOpp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                       20 GAGCTCCAACTACCACAAGT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAZ89211 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99WO-GB002579.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                      16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-224033/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             second strand cDNAs.
                                                                                                                                                                                                                                                                                                                  Local Similarity
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                                                                                                                                                                                                                 ras gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ89211;
                                                                                                                                                                                                                                                                                                Query Match
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                                                                                                                                                                                                                                                                                                                                  Matches
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Mouse multiple tumour suppressor 1 Elbeta p16-specific reverse primer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New mutants of the human multiple tumor suppressor gene, useful as diagnostic markers of cancer, contain specific base alterations or
                                                                                                                                                                                                           ö
                                                                                                                                                                                         0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.38+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                          Sequence 20 BP; 5 A; 7 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                           cancer; diagnosis; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 12; Col 50; 72pp; English.
                                                                                                                                                                                                                           621 TAAGCTGGACAAACTGGGCG 640
                                                                                                                                                                                                                                           20 reagcrreacaaaacres 1
                                                                                                                                                                                                                                                                                    AAA11188 standard; DNA; 20 BP.
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94US-00215087.
94US-00227369.
94US-00251938.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MYRI-) MYRIAD GENETICS INC.
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                                                                                                                                                                                                           16; Conservative
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                                                                                                                                                                                           Query Match
Best Local Similarity
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01-JUN-1994;
17-MAR-1995;
07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                            22-JUL-1998;
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18-MAR-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             deletions.
                                                                                                                                                            invention
                                                                                                                                                                                                                                                                                                    AAA11188;
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This sequence is an antisense oligonuclectide of the invention. The antisense oligonuclectides are targeted to a nucleic acid encoding a cellular adhesion molecule (CAM) and is capable of modulating the expression of the CAM. They particularly inhibit intercellular adhesion molecule-1 (ICAM-1), vascular cell adhesion molecule-1 (VCAM-1), or endocherial leukocyte adhesion molecule-1 (ELAM-1). The antisense oligonuclectides can be used to modulate CAM activity in mediating cell:cell interactions and subsequent cellular and biological responses,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 10; Page 176; 199pp; English.
                                                                                                                                                                                                                                                                    29-MAR-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                   WO9961462-A1.
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                                                                                                                                                                                                                                                   AAZ48909;
                                                                                                                              Query Match
                                                                                                                                       Best Loca
Matches
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tumour suppressor I (WTSI) gene (AAAIII65). The variants have the following changes relative to this sequence: A at any of positions 265, 442, 330 and 329; T at any of positions 172, 238, 341 and 148 and deletions of nucleotides 290-294, 172-179 or 128-129. The variants are sometic mutations of MSTI, indicative of predisposition to melanoma and many other cancers, so detecting them is useful for diagnosis, prognosis and monitoring of cancer (including prenatal analysis). Cells and animals that express the variants are useful as model systems for identifying potential anticancer agents. This sequence represents a primer used to screen for the mouse MTSI Elbeta sequence
The invention relates to variants (AAA11196-A11206) of the human multiple
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Seguence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
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RESULT 1278
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense oligonucleotides, used for treating e.g. inflammatory conditions, psoriasis, graft rejection, cancers, infections, cardiovascular disorders or autoimmune disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human ICAM-1 antisense inhibitor, ISIS #1939.
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505 GAGGGCTACCTGGAGAAGCT 524
                                                                                 20 GAAGGCTTCCTGGACACGCT 1
                                                                                                                                                                                                                                                                                                    AAZ48909 standard; DNA; 20 BP
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antisense sequences can be used for modulating the synthesis of a CAM.

They can be used for treating an animal suspected of having or being

They can be used for treating an animal suspected of having or being

prome to a disease or condition associated with a CAM. Oligonucleotides

targeted to ICAM-1 can be used for treating an inflammatory disease or

condition e.g. inflammatory bowel disease such as Crohn's disease or

condition e.g. inflammatory bowel disease such as Crohn's disease or

condition e.g. inflammatory bowel disease such as Crohn's disease,

condition e.g. inflammatory arthritis, allograft rejection, cancer,

pneumonia, multiple sclerosis or a viral infection. The ICAM-1 sequences

can also be used for reducing corticosteroid use in a patient or for

reducing cyclosporine use in a patient. The oligonucleotides can also be

used for detection and disgnosis. They can also be used for treating e.g.

chyproliferative disorders, tumours, diapedesis, graft versus host

disease, arthritis, infections, autoimmune disorders, e.g. autoimmune

thyroid disorders, autoimmune forms of arthritis, multiple sclerosis,

some forms of juvenile disbetes mellitus, mysathenia gravis, pemphigus

culgaris, systemic lupus erythematosus, cardiovascular disorders,

myocardial ischaemia/reperitusion injury, dilated cardiomyopathy, acute

myocarditis, ischaemic heart disease or stroke
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention provides a novel method for typing genes, particularly human leukocyte antigen (HLA) coding sequences. The methouses DNA sequences and a taxonomy-based sequence analysis method to assign alleles for HLA-DQA1, HLA-DQB1 and HLA-DRB. These alleles have been linked to diseases auch as diabetes, IgA deficiency, multiple sclerosis, cancer, clinical and immunological manifestations of HIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Typing polymorphic genes, useful to assess the association of alleles with diseases and in disease diagnosis, uses a taxonomy based sequence analysis in which a typing tree based on distinguishing sequences is constructed.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
Live 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pan Y, Brunham K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 64; 125pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 cacacccaacrccrccccc 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAC68206 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-MAR-2000; 2000CA-02299675.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99US-0124113P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gene typing PCR primer #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (UYMA-) UNIV MANITOBA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Luo M, Brunham RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2000-679930/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CA2299675-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-FEB-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAC68206;
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88

VP22; gene therapy; tumour; psoriasis; eczema; skin cancer;

Oligonucleotide #1.

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Gaps

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19-JAN-2001

AAA94747;

BP.

AAA94747 standard; DNA; 20

Location/Qualifiers

Key modified\_base

Unidentified

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Typing polymorphic genes, useful to assess the association of alleles with diseases and in disease diagnosis, uses a taxonomy based sequence analysis in which a typing tree based on distinguishing sequences is
            responses to parasite antigens, pemphigus vulgaris, inflammatory bowel disease, rheumatoid arthritis, allergy and other inflammatory diseases
 infection, coeliac disease, idiopathic nephrotic syndrome, immune
                                                                                                                                                                                                                                                                                                                   Human leukocyte antigen; HLA; gene typing; infectious disease; autoimmune disease; inflammation; cancer; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02;
                                                                         0.8%; Score 13.6; DB 1; Length 20; 30.0%; Pred. No. 9.3e+02; ve 0; Mismatches 4; Indels
                                                  Sequence 20 BP; 3 A; 6 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Brunham K;
                                                                                                                            1427 TCTCCGCAGAGGATGCCATG 1446
                                                                                                                                                                                                                                                                                              Gene typing PCR primer SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 9; Page 93; 125pp; English.
                                                                                                                                                    1 rcccccccadaccarrccrc 20
                                                                                                                                                                                                                                                                                                                                                                                                                                       10-MAR-2000; 2000CA-02299675.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                99US-0124113P
                                                                                       80.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pan Y,
                                                                                                                                                                                                                 AAC66586 standard; DNA; 20
                                                                                                                                                                                                                                                                     (first entry)
                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYMA-) UNIV MANITOBA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Brunham RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-679930/67.
                                                                                   Local Similarity
hes 16; Conserv
                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                               12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                    CA2299675-A1
                                                                                                                                                                                                                                                                    19-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           constructed
                                                                                                                                                                                                                                           AAC66586;
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                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Luo M,
                                                                                                  Matches
                                                                                                                                                                                                     AAC66586
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The present invention provides a novel method for typing genes, particularly human leukocyte antigen (HLA) coding sequences. The method uses DNA sequences and a taxonomy-based sequence analysis method to assign alleles for HLA-DQA! HLA-DQBI and HLA-DRB. These alleles have been linked to diseases such as diabetes, IgA deficiency, multiple sclerosis, cancer, clinical and immunological manifestations of HIV infection, coeliac disease, idiopathic nephrotic syndrome, immune responses to parasite antigens, pemphigus vulgaris, inflammatory bowel disease, rheumatoid arthritis, allergy and other inflammatory diseases Sequence 20 BP; 3 A; 6 C; 6 G; 5 T; 0 U; 0 Other;

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1427 TCTCCGCAGAGGATGCCATG 1446
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RESULT 1280

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Н 20 cacadeceanaciecieses BP AAA73499 Btandard; DNA; 20 (first entry) 28-NOV-2000 AAA73499; RESULT 1281 AAA73499/ AXXXXX ö

ô /mod\_base= OTHER
/note= "All bases are phosphorothioate deoxynucleotides.
Optionally labelled at 3' end with fluorescein or at 5'
end with biotin" The present invention relates to an aggregated composition comprising a polypeptide having the transport function of herpesviral transport protein VP2. The aggregates can be useful for delivery of notes oligonucleotides and proteins into cells. The present sequence is one such oligonucleotide which may be delivered into cells using the method of the present invention. The aggregated composition is useful for preparing medicament for therapy or prophylaxis of a disease and for delivering molecules to cells in vitro. The aggregates are delivered to target cells such as tumour cells in vitvo and are useful for treating pooriasis, eczema or skin cancer Aggregated composition suitable for phototherapy or prophylaxis of psoriasis, eczema or skin cancer and for delivering nucleic acids and proteins into cells, comprises transport protein VP22 and an Gaps ö 0.8%; Score 13.6; DB 1; Length 20; 30.0%; Pred. No. 9.3e+02; ive 0; Mismatches 4; Indels Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other; Example 1; Page 11; 28pp; English. 226 GAGAGTGGTGGTGGTGGCGG 245 10-MAR-2000; 2000WO-GB000897. 99GB-00005444 99GB-00030499 80.08; 16; Conservative O'hare PFJ, Normand NM; 1. .20 /\*tag= WPI; 2000-594314/56. (PHOG-) PHOGEN LID. Local Similarity oligonucleotide. WO200053722-A2 10-MAR-1999; 24-DEC-1999; 14-SEP-2000. Query Match Matches

Gaps

. 0

4; Indels

0; Mismatches

Conservative

Local Similarity es 16; Conserv

Matches

schultz621-3.rng

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c-raf is a serine-threonine-specific protein kinase and is thought to play a fundamental role in signal transduction, and cell proliferation control. The present sequence is an antisense oligomuclectide. This sequence is targeted to human c-raf gene, resulting in c-raf expression inhibition. The present sequence may be useful for treating and rafsociated cell hyperproliferation conditions such as cancer, hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis, and emocht muscle cell proliferation in blood vessels etheroselerosis and emocht muscle cell proliferation in blood vessels e.g. stenosis or restenosis following angioplasty. Also, the present sequence may be useful for treating inflammatory disorders such as tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Interleukin 1 receptor antagonist short tandem repeat primer SEQ ID NO:7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Short tandem repeat; primer; STR; susceptibility; HIV; infection; AIDS; detection; polymorphism; interleukin 10 promoter; IL-10; chromosome position 2q12; interleukin 1 receptor antagonist; ss.
                           Human; c-raf; protein kinase; antisense oligonucleotide; cancer; signal transduction; hyperplasia; pulmonary fibrosis, angiogenesis; psortiasis; atherosclerosis; moch muscle cell proliferation; stenosis; restenosis; inflammatory disorder; tissue graft rejection; endotoxin shock; glomerular nephritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense oligonucleotides targeted to nucleic acid molecule encoding human raf useful for diagnosis, treatment of raf-associated cell proliferative conditions such as cancer, psoriasis or blood vessel
Human c-raf kinase antisense oligonucleotide #11 (Isis #5149).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence may be useful for treating inflammatory disorders
graft rejection, endotoxin shock and glomerular nephritis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 5 A; 4 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1186 ATGGCCACAGGCCGTCCCCT 1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Col 9; 31pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 ATGGCTCCAGGCCTTCACCT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAC60947 standard; DNA; 20 BP
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Best Local Similarity 80,0
Matches 16, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                             Boggs RT, Monia BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-531424/48.
                                                                                                                                                                                                                                                                                               31-MAY-1994;
31-MAY-1995;
26-NOV-1996;
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                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                              28-AUG-1998;
                                                                                                                                                                                      US6090626-A.
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94US-00250856. 95WO-US007111. 96US-00756806.

PHARM INC

98US-00143214.

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The present invention describes a method for predicting susceptibility to HIV infection or HIV progression in a subject. The method involves detecting a polymorphism in a human interfleakin-10 (Li-10) promoter, where the presence of the polymorphism indicates susceptibility to HIV infection or HIV progression. The method provides prognostic information or treatments (such as administration of II-10 or gene therapy with II-10). The presence of polymorphism is useful to thelp select treatment could substantially eradicate the virus from the infected person. The method is useful for the generation of normograms or other predictive algorithms that can be used, in association with allele status, to prognose probable survival or years to development of AIDs following HIV seroconversion. It indicates that increased expression of the IL-10 gene helps to reduce HIV-1 infection and pathogenic progression of the HIP disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cell cycle regulation; corn; transgenic plant; cyclin; maize; soybean; cyclin-dependent kinase; sunflower; sorghum; canola; wheat; alfalfa; cotton; rice; barley; millet; ss.
                                                                                                                                                                                                                       Predicting susceptibility to HIV infection or progression useful for selection of therapeutic treatment for persons infected with HIV virus, comprises detecting polymorphism in human interleukin-10 promoter.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               of HIV disease. The present sequence represents a short tandem repeat (STR) primer which is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cell cycle regulatory gene related oligonucleotide SEQ ID 48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
.ive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 4 A; 2 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                   (USSH ) US DEPT HEALTH & HUMAN SERVICES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1442 CCATGAACATCCATTCTTC 1461
                                                                                                                                                                                                                                                                                               Example 1; Page 11; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (PION-) PIONEER HI-BRED INT INC.
                                                                                                                                                       Smith MW, Shin HD, O'brien SJ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-APR-2000; 2000WO-US009975.
                                               06-APR-2000; 2000WO-US009355
                                                                                     99US-0128521P.
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Best Local Similarity 80.0 Matches 16; Conservative
                                                                                                                                                                                       WPI; 2000-687051/67
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                                                                                     09-APR-1999;
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Gaps . 0

0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels

(first entry)

WO200061811-A2

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Sun Y;

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polymucleotide sequences AAC831101 - AAC83113 encode proteins AAB35794 -
AAB35806 which are involved in regulating the cell cycle. The protein and
DNA sequences have been isolated from Zea mays (corn), and the invention
also includes oligomucleotides AAC83114 - AAC83139 which are related to
the cell cycle polymucleotides. The cell cycle polymucleotide sequences
are useful for producing transgenic plants such as maize, soxphean,
care useful for producing transgenic plants such as maize, barley and
milet with increased levels of cell cycle gene activity, such as
activity of cyclin and cyclin-dependent kinases. The DNA sequences are
also useful as probes for detecting deficiencies in the level of mRNA in
screening for desired transgenic plants, for detecting mutations in the
gene, for monitoring upregulation of expression or changes in enzyme
activity in screening assays of compounds, for detecting any number of
allelic variants, orthologs or paralogs of the gene, and site-directed
mutagenesis in eukaryotic cells. The DNA sequences are also useful for
recombinant expression of the encoded polypeptides and as immunogens for
preparing and screening antibodies. A transgenic plant comprising an
copiession cassette including a cell cycle regulatory gene is useful for
assaying enzyme agonists and antabodies are useful in assaying expression
cobtain antibodies. The antibodies are useful in assaying and isolating
nucleic acids from expression lifer identifying and isolating
nucleic acids from other species, and for identifying and isolating
properties from expression in the species, and for identifying and isolating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antisense oligonucleotide; p38 mitogen activated protein kinase; MAPK; antirheumatic; antiarthritic; immunosuppressive; cardiant; heart disease; antiinflammatory; autoimmune disease; rheumatoid arthritis; apoptosis; phosphorothioate; ss.
                                                                                           Nucleic acids useful for producing transgenic plants, preferably maize, with increased cell cycle gene activity, preferably activity of cyclin and/or cyclin-dependent kinase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.8%; Score 13.6; DB 1; Length 20; ilarity 80.0%; Pred. No. 9.3e+02; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Murine p38beta antisense oligonucleotide SEQ ID 75.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 5 A; 2 C; 7 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                        Disclosure; Page 118; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              279 TCCTGGGGAACTTCGTTCTG 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 rcaageggaarregricre 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAC79550 standard; DNA; 20 BP
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                    Habben JE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                             WPI; 2000-687333/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
les 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200059919-A1.
                    Helentjaris TG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-APR-1999;
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This invention relates to antisense compounds 8-30 nucleobases in length targeted to the 5'-untranslated region, translational start site, translational termination region or 3'-untranslated region of a nucleic acid encoding a p38 mitogen activated protein kinase (MAPK), where the antisense oligonucleotides inhibit the expression of MAPK. Sequences AAC79480 and AAC79501 represent human p38alpha MAPK and p38beta MAPK CDNA sequences. AAC79501 represent human p38alpha MAPK and p38beta MAPK CDNA p38alpha antisense oligonucleotides, while AAC79502 - AAC7951 and antisense oligonucleotides, while AAC79502 - AAC7951 and antisense oligonucleotides, AAC79534 sequence AAC79523 and antisense oligonucleotides AAC79533 - AAC79536 isolated from rat tissue. Wurine p38beta MAPK CDNA is represented in AAC79537 and antisense oligonucleotides Aeve antisheumatic, antisthritic, The antisense oligonucleotides have antishing the expression of $38 MAPK in cells or tissues. The oligonucleotides are useful for inhibiting the expression of $38 MAPK in cells or tissues. The oligonucleotides are used for treating an animal continities, or heart disease. The oligonucleotides are used for treating an animal continities, or heart disease. The oligonucleotides are also useful for thinkities.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NPRS; non-ribosomal peptide synthetase; adenylation domain; A domain; PCR primer; antiblotic; immunosuppressant; cytostatic; antiviral; antihelminthic; fungicidal; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                  protein kinase
and treating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.8%; Score 13.6; DB 1; Length 20; 10.0%; Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B. brevis NRPS gene A domain PCR primer SEQ ID No: 10.
                                                                  Antisense compound targeted to p38 mitogen activated inhibits protein kinase and is useful for diagnosing inflammatory, autoimmune and heart disease.
Popoff I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 6 A; 7 C; 5 G; 2 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
 Mckay R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Marahiel MA, Stachelhaus T, Mootz H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inhibiting inflammation or apoptosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1153 GACATGTGGGGTGTGGCCTG 1172
                                                                                                                                             Example 5; Page 54; 90pp; English
 Gaarde WA, Nero PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gacarcreercrerecere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAA97969 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-MAR-1999; 99DE-01009146.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80.08;
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(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Brevibacillus brevis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MARA/) MARAHIEL M A
(STAC/) STACHELHAUS
(MOOT/) MOOTZ H.
                                    WPI; 2000-664982/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200052152-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (KONZ/) KONZ D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-SEP-2003
26-JAN-2001
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 Monia BP,
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The present invention describes a method of modulating bone resorption comprising administering leptin or a derivative under conditions suitable for the modulation of osteoclastogenesis. This is useful in the treatment of osteoporosis and paget's disease. No further information about this
                                                                                                                                                               This invention describes a novel method for the targeted non-ribosomal synthesis of peptides (I) of required structure, comprising altering one or more A (adenylation) domain-encoding DNA segments (II) that encodes a non-ribosomal peptide synthetase so that the expression product of the altered (II) can produce (I), is new. Alterations in the A-domains are made according to a non-ribosomal code reproduced in the Specification. The method is used to synthesize (I) with antibiotic, immunosuppressant, cytostatic, antiviral, antihelminthic, fungicidal or surface-active properties, and to alter specificity and/or activity of known piologically active compounds, e.g. to improve their solubility by replacing hydrophobic amino acids with hydrophilic ones, or vice versa. AAA97960-A97995 represent PCR primers used to illustrate the method of the invention. (Updated on 15-SEP-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modulating bone resorption in human or animal for treating osteoporosis or Paget's disease, comprises administering leptin, its derivative, homologue, analog, chemical equivalent, antagonist or agonist.
                                            Non-ribosomal synthesis of peptides, e.g. antibiotics or immunosuppressants, using non-ribosomal peptide synthase with targeted modifications in adenylation domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bone resorption modulation; leptin; osteoporosis; Paget's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bone resorption modulation method related sequence SEQ ID NO: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 23; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1515 ACTAAAGGAGATTCAGCTAC 1534
                                                                                                                                        Example 1; Page 39; 52pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 ACTACAGCAGGCTCAGCTAC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-AUG-2000; 2000AU-00048971.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAF76673 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16-MAY-2001 (first entry)
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                   WPI; 2000-572182/53.
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                                                      Gaps
                                                                                                                                                                                               Human glycogen synthase kinase 3 alpha antisense oligo ISIS #116602.
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                                  Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
                                                      Indels
                                                                                                                                                                                                                                                                                                                                            note= "Phosphorothioate backbone"
                 Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mod_base= OTHER
/note= "Methoxyethyl residues"
16
                                                                                                                                                                                                                                                                                                                                                                                note = "Methoxyethyl residues"
                                                      0; Mismatches
sequence is given in the specification
                                                                                                                                                                                                                                                                                                        Location/Qualifiers
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*tag= a
'mod_base= OTHER
                                                                         122 CCATGGATCGGATGAAGAAG 141
                                                                                                                                                                                                                                                                                                                                                                        base= OTHER
                                                                                          ccrredarcrearecaerae 1
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6. .20
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mod_base= m5c
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'mod_base= m5c
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mod base= m5c
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                                                                                                                                                                                                                                                        phosphorothioate backbone; ss.
                                                                                                                                          BP.
                                   Query Match
Best Local Similarity 80.0%;
Matches 16; Conservative
                                                                                                                                         AAD14761 standard; DNA; 20
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                                                                                                                                                                                 (first entry)
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                                                                                                                                                                                                                                                                                       Synthetic
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                                                                                                                         RESULT 1287
AAD14761
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/mod_base= OTHER
/note= "OTHER = Fl(CH2)6-PO-thymine, where Fl is flavine
                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to an antisense compound 8 to 30 nucleobases in length targetted to a nucleic acid encoding glycogen synthase kinase 3 alpha. The antisense compound specifically hybridises with and inhibits the expression of glycogen synthase kinase 3 alpha. The antisense compound is useful for the treatment of a diseases associated with glycogen synthase kinase 3 alpha such as diabetes, a neurological disorder, a haematopoietic disorder, a hyperproliferative disorder or a developmental disorder. The antisense compounds may also be used prophylactically to prevent or delay infection, inflammation or tumour formation. The present sequence is a phosphorothicate antisense oligonucleotide targetted to human glycogen synthase kinase 3 alpha DNA
                                                                                                                                                                                                                                                                                                                        Antisense compound 8 to 30 nucleobases in length comprising a compound that is targeted to a nucleic acid molecule encoding glycogen synthase kinase 3 alpha, useful for the treatment of e.g. diabetes and hyperproliferative disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.6; DB 1; Length 20; Similarity 80.0%; Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Analytical support; genomic sequencing; mutation detection;
pharmaceutical development; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 0 A; 12 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                          Wyatt JR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                       Example 15; Page 82; 115pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             556 CTCAGCCGCCGCCTCGTCG 575
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                                                                                                                                                                                                                                                                          Butler MM,
/*tag= m
/mod_base= m5c
                                          /*tag= n
/mod_base= m5c
                                                                                   /*tag= o
/mod_base= m5c
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                                                                                                                                                                                                                                             (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                          Monia BP, Mckay R,
                                                                                                                                                                                                                                                                                                      WPI; 2001-442247/47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Oligonucleotide #7
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                              modified base
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ABA04587/c
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The present invention relates to an analytical support, to which a number of oligonucleotides are fixed. The oligonucleotides are labelled with a fluorescent compound, the fluorescence of which varies when the oligonucleotide hybridises to its complement. The analytical support is useful in hybridisation testing for identification of specific nucleic acids, such as genomic sequencing, detecting mutations or pharmaceutical development. The present oligonucleotide was used to illustrate the
                                                                                                                                                                                                                                  Support for hybridization analysis of nucleic acids for sequencing techniques, comprises an array of oligonucleotides having a label where the fluorescence changes follow hybridization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human bcl-6 phosphorothioate antisense oligonucleotide, SEQ ID NO:41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human, bcl-6; transcriptional repressor; germinal centre formation, Th-2 mediated antibody affinity maturation, apoptosis regulator; chromosome 3q27; lymphoma; acute lymphoblastic leukaemia; post-transplant lymphoproliferative disorder; expression inhibition;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                                                                            Dueymes C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                             Fontecave M, Decout JL,
and PO is a phosphate group"
                                                                                                                                                 (COMS ) COMMISSARIAT ENERGIE ATOMIQUE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                  Example 8; Page 18; 33pp; French
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20 GAGAGGGAAGTGGTGGGGG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.8%;
                                                                                    23-FEB-2000; 2000FR-00002236.
                                                                                                                    23-FEB-2000; 2000FR-00002236
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16; Conservative
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                                                                                                                                                                             Peltie P,
                                                                                                                                                                                                         WPI; 2001-628265/73.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
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                              FR2805348-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                        invention
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AAC81175/
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Sequences AAC81144-C81223 represent antisense oligonucleotides targetted to the human bcl-6 gene, which inhibit its expression. The antisense oligonucleotides were designed to target different regions of the human bcl-6 mRNA, and were analysed for their effect on bcl-6 mRNA levels by quantitative real-time PCR. Bcl-6 (also known as B-cell CLL/ lymphoma 6, clinc finger protein 51 and iAZ3) is a sequence-specific DNA-binding transcriptional repressor. The bcl-6 gene is expressed in germinal centre B- and T- cells and is required for germinal centre formation and Th-2 mediated antibody affinity maturation. Bcl-6 may also play a role in the regulation of apoptosis. The bcl-6 gene is located on chromosoma 3q27, a region which undergoes a high frequency of translocation events. Such chromosomal translocations can result in abserrant forms of bcl-6, which are strongly implicated in the pathogensis of several types of lymphoma, and have also been reported in acute lymphoblastic leukaemia and post-transplant lymphoproliferative disorders. The oligonucleotides of the conditions associated with aberrant forms of bcl-6, such as lymphomas, acute lymphoblastic leukaemia and post-transplant lymphoblastic leukaemia and post-transplant lymphoblastic leukaemia and post-transplant lymphoblastic leukaemia and post-transplant lymphoproliferative
          Antisense compounds which specifically hybridize with and inhibit human bcl-6 expression, useful for treating bcl-6 related disorders, and preventing or delaying inflammation or tumor formation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel multiple tumor suppressor gene useful for diagnosing, prognosing and treating cancers, such as melanoma, leukemia, glioblastoma and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; multiple tumour suppressor; MTS; cancer; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seguence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                       Claim 14; Col 41-42; 42pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 494 TCCGGCTGCCTGAGGGCTAC 513
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94US-00215087.
94US-00251938.
95WO-US003316.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF58196/c
ID AAF58196 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-158668/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18-MAR-1994;
01-JUN-1994;
17-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-APR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAF58196;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1290
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Matches
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Human; cot oncogene; antisense therapy; inflammation; cancer; antisense; immune system disorder; prophylaxis; cytostatic; immunomodulator; Tpl-2; est; phosphorothioate backbone; ss.
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                                                                                                  The present invention relates to human multiple tumor suppressor-2 (Mgene. The invention is useful for diagnosing, prognosing and treating cancers. It is also useful for screening drugs for cancer therapy and
                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                 Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human cot oncogene antisense oligonucleotide, ISIS 116381.
                                                                                                                                                                                                                                                                                                                                                     4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  note= "Phosphorothioate backbone"
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/*tag= c
/mdd base= OTHER
/note= "2'-methoxyethyl residues"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
/note= "2'-methoxyethyl residues'
                                                                                                                                                                                                                                          Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                           0.8%; Score 13.6; DB 1;
80.0%; Pred. No. 9.3e+02;
vative 0; Mismatches 4;
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                                                       Example 12; Col 50; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                          505 GAGGCTACCTGGAGAGCT 524
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/mod_base= 1
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                                                                                                                                                                                                                                                                                         Ouery Match
Best Local Similarity 80.0
Matches 16; Conservative
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Hodgkin's lymphoma.
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modified_base
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Synthetic.
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                                                                                                                                                                                            gene therapy
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AAD11340
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Gaps

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0.8%; Score 13.6; DB 1; Length 20; 30.0%; Pred. No. 9.3e+02; ve 0; Mismatches 4; Indels

80.08;

(ISIS-) ISIS PHARM INC. Popoff I, Cowsert LM;

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Human; ss; PARP; Poly (ADP-ribose) polymerase; antisense oligonucleotide; cytostatic; nootropic; neuroprotective; antinflammatory; antidiabetic; immunosuppressant; hyperproliferative disorder; cancer; cellular injury; oxidative stress; neurological disorder; parkinsoniem; apoptosis; meningitis-associated intracranial complication; ischaemia; probe; inflammatory disorder; autoimmune disorder; arthritis; diabetes.
                                                                                            The invention relates to antisense oligonucleotides, compositions and methods for modulating cot oncogene expression. The cot oncogene is also known as Tpl-2 and est. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targetted to nucleic acids encoding cot oncogene. The antisense oligonucleotides are useful for associated with expression of cot oncogene and for treating diseases associated with expression of cot oncogene, e.g. inflammation, cancer or disorders of the immune system. The antisense oligonucleotides are also useful for diagnosis or prophylaxis or as research reagents and kites. The present sequence is human cot oncogene antisense oligonucleotide, ISIS 116381. This sequence was targetted towards the coding region of human
expression of cot oncogene, such as inflammation, cancer or immune system disorders.
                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       note= "All cytidine residues are 5-methyl cytidine"
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                                                                                                                                                                                                                                                                                                                                                          Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
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/mod_base= OTHER
/mote= "2'-methoxyethyl nucleotides"
16.20
/*tag= d
/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . 20
*tag= a "mod base= OTHER "note= "Phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 5 A; 2 C; 10 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human PARP-3 antisense inhibitor ISIS #126059.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                  Example 15; Col 41; 39pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                 627 GGACAAACIGGGCGAGGGIA 646
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*tag≈ b
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modified base
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                                                                                                                                                                                                                                                                                             cot oncogene
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                                                                                                                                                                                     The invention relates to antisense oligonuclectides targeted to human PARP nucleic acid and inhibiting expression of human PARP. PARP (Poly (ADP-ribose) polyaerase plays an important role in chromatin decondensation, DNA replication, DNA repair, gene expression, malignant transformation, cellular differentiation and apoptosis. The antisense oligonuclectide inhibitors are useful for inhibiting the expression of PARP in human cells or tissues. They are also useful for treating a human with a disease associated with PARP especially hyperproliferative disorders (e.g. cancer), cellular injury resulting from oxidative stress, neurological (e.g parkinsonism, meningitis-associated intracranial complications and isotheemia), inflammatory and autoimmune disorders (e.g. arthritis) and diabetes. The present sequence is an antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; ss; PARP; Poly (ADP-ribose) polymerase; antisense oligonucleotide; cytostatic; nootropic; neuroprotective; antilnflammatory; antidiabetic; immunosuppressant; hyperproliferative disorder; cancer; cellular injury; oxidative stress; neurological disorder; parkinsonism; apoptosis; meningitis-associated intracranial complication; ischaemia; probe; inflammatory disorder; autoimmune disorder; arthritis; diabetes.
                                                                                                          Antisense compound useful for treating hyperproliferative, neurological, inflammatory and autoimmune disorders and diabetes inhibits human PARP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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note= "All cytidine residues are 5-methyl cytidine"
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80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
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/mod base= OTHER
/note= "2'-methoxyethyl nucleotides"
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/note= "Phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence 20 BP; 2 A; 3 C; 8 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human PARP-2 antisense inhibitor ISIS #126144.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                             Example 18; Page 91; 168pp; English
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/note= "2'
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tes 16; Conservative
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*tag=
                                                                              WPI; 2001-602570/68.
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modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
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Cowsert LM;

Monia BP,

WPI; 2001-090484/10.

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The invention relates to antisense oligonuclectides targeted to human PARP nucleic acid and inhibiting expression of human PARP. PARP (Poly decondensation) therease polyays an important role in chromatin decondensation, DNA replication, DNA repair, gene expression, malignant transformation, cellular differentiation and apoptosis. The antisense oligonuclectide inhibitors are useful for inhibiting the expression of PARP in human cells or tissues. They are also useful for traating a human with a disease associated with PARP especially hyperproliferative disorders (e.g. cancer), cellular injury resulting from oxidative stress, neurological (e.g parkinsonism, meningitis-associated intractanial complications and isolaemia), inflammatory and autoimmune disorders (e.g arthritis) and diabetes. The present sequence is an antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human hnRNP A1 phosphorothioate antisense oligonucleotide, SEQ ID NO:46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human hnRNP A1; heterogeneous nuclear ribonucleoprotein A1; heterogeneous nuclear ribonucleoprotein core protein A1; p40CRS; mRNA processing; transport; stabilisation; alternative splicing; donor splice site selection; telomere biogenesis; oncogenesis; apoptosis-associated protein; cancer; tumour formation; expression inhibition; phosphorothioate; antisense oligonucleotide; ss.
                                                                                                                                                                                                                                                            Antisense compound useful for treating hyperproliferative, neurological, inflammatory and autoimmune disorders and diabetes inhibits human PARP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 2 A; 4 C; 6 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                   Example 16; Page 86; 168pp; English
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                                                                                    01-MAR-2001; 2001WO-US006572.
                                                                                                                      02-MAR-2000; 2000US-00517467.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAC92774 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-MAR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16, Conservative
                                                                                                                                                      (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                            Popoff I, Cowsert LM;
                                                                                                                                                                                                                            WPI; 2001-602570/68.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                  WO200164955-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US6165789-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-DEC-2000
                                                    07-SEP-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAC92774;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1294
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cotheres AAC92738-C92817 represent antisense oligonucleotides targetted to the heterogeneous nuclear ribonucleoprotein A1 (hnRNP A1) gene, which to the heterogeneous nuclear ribonucleotides were designed to target different regions of the human hnRNP A1 mRNA, and were analysed for their effect on hnRNP A1 mRNA levels by quantitative real-time PCR. CnRNP A1 alac Anoma as heterogeneous nuclear ribonucleoprotein core protein A1 and p40CRS) is thought to function in the stabilisation, transport and processing (including alternative splicing) of newly transport and processing (including alternative splicing) of newly transport and processing (including alternative splicing) of newly and shuttles continuously between the nucleus and the cytoplasm acting as a carrier protein for mRNAs. In Alaps participates in telomere biogenesis, with low levels of hnRNP correlating with shortened biogenesis, with low levels of hnRNP correlating with shortened corrected procein on the basis that it is specifically cleaved into three fragments during antichody-mediated apoptosis. Due to its ability to three fragments during antichody-mediated apoptosis. Due to its ability to three fragments during antichody-mediated apoptosis. The invention are useful for diagnosis, prevention and treatment of conditions associated with hnRNP A1 expression, such as cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                Novel antisense compound targeted to human hnRNP Al which specifically hybridizes with and inhibits the expression of human hnRNP Al, useful for modulating the expression of hnRNP Al in cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Transport; membrane; cytostatic; virucide; vasotropic; dermatological; antipsoriatic; antiasthmatic; gene therapy; tumor cell; antisense; tumor therapy; drug; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
iive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 6 A; 12 C; 1 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Anti-ICAM-1 oligonucleotide SEQ ID 53.
                                                                                                                                                                Example 15; Col 41-42; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              231 TGGTGGTGGTGGCGCCAGTG 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20 redredredredredredre 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAF60944 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-MAY-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DE19935302-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   08-FEB-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF60944;
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Gaps .. Schwerdel M;

Gothe G,

Unger E,

Uhlmann E, Greiner B,

WPI; 2001-203679/21.

(ISIS-) ISIS PHARM INC

(AVET ) AVENTIS PHARMA DEUT GMBH

28-JUL-1999;

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Secreted Frizzled-related protein; SFRP; chronic bronchitis; asthma; chronic obstructive pulmonary disease; COPD; antisense therapy; mouse; emphysema; reverse transcription PCR; RT-PCR primer; sfrp3 gene; ss.
                                                                                                                                                                                                                                                                                                                                   Mouse sfrp3 gene specific forward RT-PCR primer.
                                                                                                                                                                                                                                                                                                    AAD17434 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                               WO200164717-A1.
                                                                                                                                                                                                                                                                                                                         29-NOV-2001
                                                                                                                                                                                                                                                                                                              AAD17434;
                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                                         RESULT 1296
                                                                                                                                                                                                                                                                                               AAD17434
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This invention describes a novel conjugate (I) which consists of (A) a molecule to be transported and (B) at least one aryl residue of formula - CC Ar. (xc(Y)-H) n (II). Ar = group containing at least one aroatic ring; X = 0 or N (Bic); Y = 0, So N MH-R 2 (Sic); R, I = optionally substituted (CC 1-23C alkyl (optionally substituted 1-18C alkyl (optionally containing double and/or triple bonds); R\_2 = coping containing double and/or triple bonds; R\_2 = coping containing double and/or criple bonds; R\_2 = coping (B) is integer of 1 or more. (A) is bonded to (B) directly or via a chemical group, provided that the chemical group is other than CH\_2 coping (B) is to peopration of a conjugate (I) of (A) a molecule to be transported and (B) at least one aryl residue (not restricted to at which (B) is to be bonded, preparing (B) and reacting (A) and (B); at least one aryl residue (not restricted to at which (B) is to be bonded, preparing (B) and reacting (A) and (B); at least one aryl residue (not restricted to at which (B) is to be bonded, preparing (B) and reacting (A) and (B); at least one aryl residue (not restricted to coping (II)) (optionally bonded via a chemical coping (II)) (optionally bonded via a chemical coping (II)) (optionally bonded via a chemical coping and antiasthmatic activity and can be used for generating (B) across biological membranes or into eukaryotic or proxing (I) are antisened for generating (I) are also claimed. Typically (I) are antisened coping (I) are also claimed. Typically (I) are antisened coping (II) are also claimed. Typically (II) are allowing or colling (C) hybridization. Conjugates (II) and prepared viewing (II) are allowing coping coping or asthma); or colling viral infections or diseases associated with integring or (II) and mich case the conjugates (II) are fluorescently labeled, allowing conficuring of callular uptake etc. The callular uptake of (II) are subtaked to conjugates (II) are subtaked for conjugates (II) are subtaked (II) are subtaked (II) are subtaked (II) are subtake ) e.g. oligonucleotides conjugated with fluorescein diacetate (v scope of (B)) have superior uptake to corresponding fluorescein New substituted aryl conjugates of parent molecules, especially oligonucleotides, having improved transmembrane and intracellular transport properties, useful as medicaments or diagnostic agents. 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other; Disclosure; Page 8; 28pp; German.

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Gaps

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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ive 0; Mismatches 4; Indels

RESULT 1297

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0; Gaps

226 GAGAGTGGTGGTGGTGGCGG 245

16; Conservative Similarity

20 dadadeddaadredrideddd 1

(first entry)

셤 ઠ

16; Conservative

Matches

Local Similarity

Query Match

therapy

Sequence 20 BP; 8 A; 7 C; 3 G; 2 T; 0 U; 0 Other;

The present sequence is mouse secreted Frizzled-related protein (sfrp3) gene specific reverse transcription PCR (RT-PCR) primer. The invention relates to a method for treating or preventing chronic obstructive pulmonary disease (COPD) such as emphysema, asthma and chronic bronchitis in a subject. The method involves administering to the subject, an agent effective to inhibit apoptosis by inhibiting the expression of a secreted Prizzled-related protein (sFRP) gene. It is also useful in antisense

Inhibition of apoptosis for the treatment or prevention of obstructive pulmonary disease comprises inhibiting expression of secreted Frizzled-related protein gene in lung cells.

(UYCO ) UNIV COLUMBIA NEW YORK.

WPI; 2001-557764/62. D'armiento J, Imai

29-FEB-2000; 2000US-00514885.

Example 2; Page 35; 79pp; English.

Inhibition of apoptosis for the treatment or prevention of obstructive pulmonary disease comprises inhibiting expression of secreted Frizzled-Secreted Frizzled-related protein; SFRP; chronic bronchitis; asthma; chronic obstructive pulmonary disease; COPD; antisense therapy; human; emphysema; reverse transcription PCR; RT-PCR primer; SFRP4 gene; ss. Human sFRP4 gene specific forward RT-PCR primer. related protein gene in lung cells. Example 2; Page 35; 79pp; English. (UYCO ) UNIV COLUMBIA NEW YORK. AAD17410 standard; DNA; 20 BP 29-FEB-2000; 2000US-00514885. 28-FEB-2001; 2001WO-US006579 29-NOV-2001 (first entry) D'armiento J, Imai K; WPI; 2001-557764/62. WO200164717-A1. Homo sapiens 07-SEP-2001. AAD17410; 

The present sequence is human secreted Frizzled-related protein 4 (sFRP4) gene specific reverse transcription PCR (RT-PCR) primer. The invention

28-FEB-2001; 2001WO-US006579.

07-SEP-2001,

Gaps

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The sequence represents PCR primer RP.2(rev) used in analysis of multiple tumour suppressor MTS1 and MTS2. The MTS genes, and expression products, are useful for treating, diagnosing or prognosing human cancer. In particular, the MTS gene is useful for diagnosing a predisposition to or as a gene therapy for melanoma, leukaemia, astrocytoma, glioblastoma, lymphoma, chronic lymphatic leukaemia (CLL), or cancers of the pancreas, breast, thyroid, ovary, uterus, testis, kidney, stomach or rectum. The gene may be used in both cancerous and pre
relates to a method for treating or preventing chronic obstructive pulmonary disease (COPD) such as emphysema, asthma and chronic bronchitis in a subject. The method involves administering to the subject, an agent effective to inhibit apoptosis by inhibiting the expression of a secreted Frizzled-related protein (8FRP) gene. It is also useful in antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New mouse multiple tumor suppressor gene, useful for diagnosing or prognosing human cancer or as gene therapy for treating cancer, particularly melanoma, leukemia, astrocytoma, lymphoma or cancers of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; multiple tumour suppressor; MTS1; MTS2; therapeutic; diagnostic; cancer; gene therapy; melanoma; leukaemia; astrocytoma; glioblastoma; lymphoma; glioma; Hodgkin's lymphoma; chronic lymphatic leukaemia; PCR primer; ss.
                                                                                                                                                           Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR primer RP.2 (rev) used in analysis of MTS1 and MTS2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seguence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                              Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                          1289 TCCTGTCCAACGAGGTTC 1308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 7; Col 40; 80pp; English.
                                                                                                                                                                                                                                                                         rccreeccarceaecaerae 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    95WO-US003316.
95US-00487033.
95US-00508735.
                                                                                                                                                                                                                                                                                                                                                                     AAS02589 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (MYRI-) MYRIAD GENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jiang P, Kamb A;
                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-280859/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pancreas or breast.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancerous cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-MAR-1995;
07-JUN-1995;
28-JUL-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US6210949-B1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                              29-AUG-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Stone S,
                                                                                                                                                                                                                                                                                                                                                                                                          AAS02589;
                                                                                             therapy
                                                                                                                                                                                                                                                                                                                                  RESULT 1298
                                                                                                                                                                                                                                                                                                                                                   AAS02589,
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The sequence represents an FITC (fluorescein isothiocyanate) labeled cligonucleotide complimentary to part of the mRNA encoding the intracellular-adhesion molecule ICAM. The oligonucleotide is included in a composition comprising a fusion protein of herpes virus VP22 protein 159-301 (laving the transport function) and a cell-cycle progression regulator (or its DNA) e.g. BH3 or apoptotic proteins. The composition is used to reduce the proliferation of cells. The method of making the VP22 containing compositions is used for reducing proliferation of hyper-proliferating cells e.g., cancer cells, for manufacturing a medicament to reduce or treat cell proliferation e.g. cancer cell proliferation. The method is also used for reducing or treating cell proliferation. The method is also used for reducing or treating cell proliferation, in tumour cells present in tumour cells marts, smooth muscle cells present in restencist, proliferating skin cells e.g., skin cancer, psoriasis or cetema skin cells, or proliferating cells of scar tissue
                                                                                                                                                                                                                                                                                       apoptosis; hyper-proliferating cell; cancer; tumour; eczema; cell-cycle progression regulator; genital warts; restenosis; skin cancer; psoriasis; scar tissue; intracellular-adhesion molecule.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Inhibiting cancer cell proliferation by exposing cells to a composition of fusion proteins comprising VP22 polypeptides coupled to cell cycle progression regulators, and further exposing cells to cell death
                                                                                                                                                                                                                                                                   FITC; ICAM; oligonucleotide; ss; fluorescein isothiocyanate; VP22; BH3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag= a
/note= "C is labeled with FITC"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               O'hare PFJ, Normand NM, Brewis ND, Phelan A;
                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure, Page 14; 23pp, English.
                                                                                                                                                                                                                                    FITC-labeled ICAM oligonucleotide.
524
                               H
                     20 GAAGGCTTCCTGGACACGCT
505 GAGGGCTACCTGGAGAAGCT
                                                                                                                           AAS09545 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21-DEC-2000; 2000WO-GB004965.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99GB-00030519
                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-418224/44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (PHOG-) PHOGEN LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200147960-A1
                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                           misc feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  stimulators.
                                                                                                                                                                                                 24-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                AAS09545;
                                                                                         RESULT
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Gaps

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Length 20; 4; Indels

.Match 0.8%; Score 13.6; DB 1; Local Similarity 80.0%; Pred. No. 9.3e+02; les 16; Conservative 0; Mismatches 4;

Query Match Best Local S

Matches

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Gaps

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Score 13.6; DB 1; Length 20; Pred. No. 9.3e+02; 0; Mismatches 4; Indels

Query Match
Best Local Similarity 80.0%;
Matches 16; Conservative

226 GAGAGTGGTGGTGGCGG 245

20 GAGAGGGGAAGTGGTGGGGG

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ВP

12-JUN-2001 (first entry)

schultz621-3.rng

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Convenient and cheap microplate fluorescent screening method for detecting gene anomaly in e.g. infectious diseases, congenital genetic diseases or cancers through gene diagnosis in community screening test
                                                                                                            HPV; genetic disease; gene anomaly; infectious disease; chlamydia; congenital genefic disease; cancer; human papilloma virus; k-ras; cystic fibrosis; mitochondrial cerebromyopathy; cervical cancer; colon cancer; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 2 A; 1 C; 9 G; 8 T; 0 U; 0 Other;
                                                                                       PCR primer used to amplify a k-ras DNA sequence.
                                                                                                                                                                                                                                                                                      (SAPP-) SAPPORO IMMUNO DIAGNOSTIC LAB
                                                                                                                                                                                                                                                                                                            Yamaguchi A, Kikuchi K, Nakamura K;
                                                                                                                                                                                                                                                                                                                                                                                                                Claim 7; Page 22; 26pp; Japanese.
                                                                                                                                                                                                                                          09~FEB-2000; 2000WO-JP000693
                                                                                                                                                                                                                                                                09-FEB-2000; 2000WO-JP000693
                     AAH42979 standard; DNA; 20
                                                                 15-OCT-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                  WPI; 2001-497079/54.
                                                                                                                                                                                             WO200159124-A1.
                                                                                                                                                                       Unidentified
                                                                                                                                                                                                                    16-AUG-2001
                                           AAH42979;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                            program
RESULT 1300
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555 CCTCAGCCGCCGCCTCCGTC 574 p38 gene PCR primer SEQ ID NO:22. 20 cceccecceccecceccecce 1 AAH41775 standard; DNA; 20 (first entry) 16; Conservative Local Similarity 29-AUG-2001 AAH41775; Query Match RESULT 1302 Matches ઠે 셤 pCR primers AAH42977-80 were used to amplify k-ras DNA sequences. The primers are used in the method of the invention. The specification describes a method for screening genetic diseases. The method comprises using DNA simply extracted from a biological specimen such as scraeped mucosal cells and tissue slide pieces fixed with formalin and embedded in paraffin, and amplifying a target region by polymerase chain reaction (PCR) for direct fluorescence measurement of the additional doublestranded DNA intercalator. The method is used for detecting gene anomaly in e.g. infections diseases, congenital genetic diseases or cancers, including infection disease due to human papilloma virus and chlamydia genetic diseases like cystic fibrosis, mitochondrial cerebromyopathy, cancers of cervical cancer and colon cancer, through gene diagnosis in community screening test program ö Gaps .. 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; 4; Indels 0; Mismatches 1310 AGACATACAACTACCCCAAG 1329 20 ACACCTCCAACTACCACAAG 1 AAF99116/c ID AAF99116 standard; DNA; 20 BP.

Conservative

Local Similarity es 16; Conserv

Best Loca Matches

δ 엄 Synthetic

AAF99116

RESULT 1301

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The present invention relates to a method for stimulating an immune response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulatory nucleic acid to a non-rodent subject is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The method is also useful for preventing cancer, asthma, infectious disease, allergy or immune deficiency. The present sequence can also be used to redirect a thi temune response and to activate immune cells. Note: the present sequence may have a phosphorothioate backbone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                   Vaccine, cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tunour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; astima; infections disease, allergy, immune deficiency; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Vaccinating against tumors, infectious diseases, allergies and asthmausing immunostimulatory Py-rich and TG nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Base, string; tape; circular disc; ligand; immobilised; PCR primer; detection; diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
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                                Immunostimulatory nucleic acid #232.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 101; Page 43; 338pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Vollmer J;
                                                                                                                                                                                                                                                                                                   25-SEP-1999; 99US-0156113P.
27-SEP-1999; 99US-0156135P.
23-AUG-2000; 2000US-0227436P.
                                                                                                                                                                                                                                                                    25-SEP-2000; 2000WO-US026383
                                                                                                                                                                                                                                                                                                                                                                        (IOWA ) UNIV IOWA RES FOUND. (COLE-) COLEY PHARM GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                   Krieg AM, Schetter C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-273485/28
                                                                                                                                                                                           WO200122972-A2.
                                                                                                                                                                                                                                  05-APR-2001.
                                                                                                                                                           Synthetic.
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The present invention describes bases in the shape of a string, tape or circular disc on the surface of which a plural number of different ligands are immobilised respectively in pre-determined domains. Also described are devices for detecting the binding between the ligands and receptors and methods for detecting the binding between the ligands are useful for detection in biochemical and diagnostic assays. The ligands are immobilised in line, so the user only needs to determine the presence or absence of receptor binding, without further processing. AAM411315 represent primers which are used in an example from the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antileukoprotease, ALP; secretory leukocyte proteinase, SLPI; human; cancer marker; ovarian tumour; ovarian-derived metastatic tumour; overexpression; low malignant potential tumour; ovarian carcinoma; serous carcinoma; mucinous carcinoma; endometrioid carcinoma; elear cell carcinoma; cancer; diagnosis; cytostatic;
                                                                                                                                                                                                                             String, tape or disk shaped bases with several different immobilized ligands including nucleic acids, sugars, peptides and proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human antileukoprotease (ALP) reverse PCR primer, SEQ ID NO:4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 5 A; 5 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                               Example 1; Page 37; 56pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1236 ACACTICATCTICCGIAICT 1255
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99US-0159972P
                                                                         24-OCT-2000; 2000WO-JP007415.
                                                                                                      05-NOV-1999; 99JP-00315610.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   clear cell carcinoma; cancer
quantitative PCR primer; ss
                                                                                                                                  (TAKI ) TAKARA SHUZO CO LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                     Kato I, Izu H, Asada K;
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                                                                                                                                                                                                    WPI; 2001-343623/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
es 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200128500-A2.
             WO200135098-A1
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                                           17-MAY-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAH23850;
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Matches
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The invention relates to methods for the diagnosis and treatment of ovarian tumours or ovarian-derived metastatic tumours in an individual.

The diagnostic method involves measuring the level of antilenkoprotease (ALP) in a sample (e.g., a blood sample, tissue biopsy or ovarian secretion) from an individual. If the level of ALP exceeds the mean basal secretion from an individual is likely to have an ovarian or ovariance of ALP in non-diseased individuals by 2 or more standard derived tumour. ALP, also known as secretory leukocyte proteinse (SLPI), derived tumour. ALP, also known as secretory leukocyte proteinse (SLPI), is a small (approximately 100 amino acids) secreted proteinse (SLPI), is a small (approximately 100 amino acids) secreted proteinse (SLPI), enzyme, and is also able to inhibit leukocyte elastise, cathepsin G, chymotrypsin and trypsin. It is significantly overexpressed in carcinomas and potential tumours of coarian-derived tumours, or preventing covarian tumour metastasis, via the administration of ALP. Methods of the overian and overian-derived metastatic tumours, particularly low malignant potential for the diagnosis, prevention and reactinoma, consinual endometricing carcinoma, endometricing carcinoma, endometricing carcinoma, endometricing carcinoma, endometricing carcinoma, endometricing carcinoma and clear cell carcinoma.

Sequences AAH23847-AAH23850 represent PCR primers used in quantitative consinual and cancerous ovarian tissue determine levels of ALP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Isolated unedited human excitatory amino acid 4 receptor polynucleotides and proteins, useful for screening potential therapeutic compounds and
                                         Detecting tumor growth in an individual, particularly ovarian and ovarian -derived metastatic tumors, comprises measuring antileukoprotease levels.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human, excitatory amino acid 4 receptor, EAA 4 receptor, central nervous system receptor, PCR primer, 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 7 A; 3 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
0.8%; Score 13.6; DB 1;
Best Local Similarity 80.0%; Pred. No. 9.3e+02;
Matches 16; Conservative 0; Mismatches 4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1109 CCCCTGACATCCTGCTTGGG 1128
                                                                                                    Example 3; Page 10; 45pp; English.
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94WO-CA000705
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WPI; 2001-290812/30
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21-DEC-1994;
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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ative 0; Mismatches 4; Indels

Underwood LJ, Shigemasa K;

schultz621-3.rng

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human excitatory amino acid (EAA) 5 receptor. The synthesis this central nervous system (CNS) receptor in vivo is regulated by an editing mechanism. This editing results in the expression from a single human CNS receptor game of structurally distinct forms of the CNS receptor protein. The specification describes a human EAA4 receptor. The human excitatory EAA4 receptor polymuclacotide and the protein it encodes are useful for screening potential therapeutic compounds and selecting drug candidates that interact selectively with edited human central nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mouse; multiple tumour suppressor; MTS; cytostatic; somatic mutation; gram line mutation; gene therapy; melanoma; leuksamia; astrocytoma; CLL; glioblascoma; lymphoma; galioma; Hoddyin's lymphoma; cancer; rectum; P16; pancreas; breast; thyroid; ovary; uterus; testis; kidney; stomach; mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to somatic and germ line mutations in the multiple tumour suppressor (MTS) gene in human cancer. The invention also relates to therapy of human cancer which have a mutation in the MTS gene,
                                                                                   primers AAC62056-60 were used to amplify nucleic acids encoding the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel multiple tumor suppressor proteins useful for diagnosis and prognosis of human cancer and for screening drugs for cancer treatment.
 drug candidates that interact with edited human central nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mouse P16beta cDNA amplifying P16-specific reverse PCR primer.
                                                                                                                                                                                                                                                                                                               'Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; les 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                               Sequence 20 BP; 3 A; 4 C; 9 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                      1211 CGGGCTCCACGGTGGAGGAA 1230
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                                                  Example 8; Col 21; 91pp; English
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94US-00215086.
94US-00215087.
94US-00227369.
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95WO-US003316.
95US-00486047.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pancreas; breast; thyro;
Pl6beta; PCR primer; ss
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18-MAR-1994;
18-MAR-1994;
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17-MAR-1995
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                                                                                                                                                                                                                                                                                                                 Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 1305
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New regulatory sequences from the fascin gene, useful for providing dendritic cell-specific expression of e.g. antigens, e.g. for vaccination against tumors and infections.
including gene therapy, protein replacement therapy, and protein mimetics. The MTS sequences are useful for diagnosing predisposition to human cancer or for diagnosing and prognosing human cancers such as melanoma, leukaemia, astrocytoma, glioblastoma, lymphoma, glioma, Hodgkin's lymphoma, CLL and cancers of pancreas, breast, thyroid, ovary, uterus, testis, kidney, stomach and rectum. They are also used for screening drugs for cancer treatment. The present sequence is pl6-specific reverse PCR primer used for amplifying mouse Pl6beta cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antibacterial; antifungal; antiparasitic; anti-allergic; neurological; immunomodulatory; apoptotic; expression regulator; vaccine; allergen; Creutzfeld-Jakob disease; Alzheimer's disease; gene therapy; autoimmune disease; transplant rejection; primer; ss.
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                                                                                                                                                                                                                    Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indel8
                                                                                                                                                                                    Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                        505 GAGGGCTACCTGGAGAAGCT 524
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                                                                                                                                                                                                                         0.8%;
80.08;
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02-MAR-2000; 2000DE-01010188.
                                                                                                                                                                                                                                                                                                                                                                                                                                                AAH48603 standard; DNA; 20
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                                                                                                                                                                                                                                            Best Local Similarity 80.0
Matches 16; Conservative
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(ROSS/) ROSS X.
(ROSS/) ROSS R.
(BROS/) BROS M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-451858/48.
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AAH48603/
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Sequence 20 BP; 4 A; 5 C; 6 G; 5 T; 0 U; 0 Other;

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A new protein is described which comprises the 318 residue amino acid sequence corresponding to wild type retinol dehydrogenase (RDHS), but where amino acid 238 is not Gly, amino acid 73 is not Ser, or amino acid 33 is not Ile. This mutant RDHS can be used in the analysis of mutations in the gene encoding retinol dehydrogenase, in the diagnosis and treatment of ocular diseases associated with retinal degeneration such fundus albipunctatus. Other disorders which may also be studied include retinitis punctar albescens, albipunctate dystrophy and retinitis pigmentosa. A number of primer pairs (See GENESEQ records AAA5443). A54448) were used to amplify the genomic RDHS DNA. Two primers (AAA54441, AAA54442) were used to amplify exon 3b of the RDHS gene. This primer corresponds to nucleotides 3151-3170 of the genomic DNA sequence (See GENESEQ record AAA5441).
in DC; for isolation and identification of cell factors and cis-elements from regulatory sequences that mediate DC-specific expression; to determine the degree of maturity of DC and to block transcription factors, by providing binding sites in DC. (A) provide DC-specific expression of nucleic acid under their control, allowing a more specific regulation of the immune response and eliminating the long and laborious purification of DC (since a complete leucocyte population may be transformed), including transformation in vitro. This sequence represents a primer associated with the human fascin gene described in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mutations in nucleic acid molecules encoding 11-cis retinol dehydrogenase correlated to ocular disorders, useful in diagnosis and treatment of diseases such as fundus albipunctatus.
                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-cis retinol dehydrogenase; RDH5; eye; mutant; mutation; cocular disease; fundus albipunctatus; retinitis punctata albescens; albipunctate dystrophy; retinitis pigmentosa; human; primer; ss.
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                                                                                                                                                                                                                                                            Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Primer for amplifying 11-cis retinol dehydrogenase (RDH5).
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                                                                                                                                                                                                                     Sequence 20 BP; 1 A; 10 C; 5 G; 4 T; 0 U; 0 Other;
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(HARD ) HARVARD COLLEGE.
(MASS-) MASSACHUSETIS EYE & EAR INFIRMARY.
                                                                                                                                                                                                                                                                                                                                                1631 CCAGCAGCCAGCGCTGGAG 1650
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                                                                                                                                                                                                                                                                                                                                                                                       20 ccadeadecedadecrecae 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA54442 standard; cDNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-MAY-2000; 2000WO-US012527.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-00306538,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Simon A, Eriksson U,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-016091/02.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAA54442;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 1307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAA54442
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New multiple tumor suppressor 2-specific antibodies useful for detecting differences in the absence of the peptides or mutant gene products, or for screening tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to an antibody or its fragment that specifically binds to a human multiple tumour suppressor (WTS). The invention is useful for detecting differences in the absence of MTS peptides, to screen a tissue or to detect mutant MTS gene products. The antibodies will immunoprecipitate MTS proteins from solution as well as react with MTS protein on Western or immunoblots of polyacrylamide gels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                             Gaps
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Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                 MTS; Multiple Tumour Suppressor; cancer; antibody; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                    Primer used to amplify mouse beta cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 12; Col 50; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     505 GAGGGCTACCTGGAGAGCT 524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 80.08; F1
                                                      S6 TGTGACTGCTGAAACCCAGG 75
                                                                                1 rérragrecrégaacceage 20
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94US-00215087.
94US-00227369.
                                                                                                                                                                                                                                                                                                                                                                             98US-00120128
                                                                                                                                                                                                                                                                                                                                                                                                        94US-00214582
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95WO-US003316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95US-00486047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MYRI-) MYRIAD GENETICS INC.
                                                                                                                                                   AAC83096 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAH78394 standard; DNA; 20
                                                                                                                                                                                                        23-FEB-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-014867/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                             22-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                    18-MAR-1994;
18-MAR-1994;
14-APR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JUN-1994;
17-MAR-1995;
07-JUN-1995;
                                                                                                                                                                                                                                                                                                                      US6140473-A.
                                                                                                                                                                                                                                                                                                                                                  31-0CT-2000
                                                                                                                                                                                                                                                                                                                                                                                                        18-MAR-1994
                                                                                                                                                                               AAC83096;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kamb A;
                                                                                                                                                                                                                                                                                           Mus sp.
                                                                                                                           RESULT 1308
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Matches
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ID AAH7
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Page 621

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The specification describes a method for detecting a mutation at a particular position in a target nucleic acid. The method comprises binding the target to a solid support, hybridizing a probe to the target, elongating the probe with nucleotide(s) resistant to exonuclease, digesting the probe with accounclease and detecting bound nucleic acid. The mutation is in position 'n' in a target nucleic acid and the 3' extremity of the probe hybridises to position 'n'. The method is used to detect gene mutations implicated in disease, particularly hereditary thalassemias, cystic fibroais, hemophilia and genes implicated in cancer. The present sequence represents a probe which is used in the method of the invention to detect a mutation in codon 12 of K-ras
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human, phosphofructokinase isozyme-2; iPFK-2; therapy, drug screening,
cancer; inflammation; cachexia; anti-tumour; phosphorothioate backbone;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Detecting mutation in target nucleic acid, useful for detecting hereditary genetic diseases, comprises using chip whose electrical or optical property changes relative to the presence of hybridized probe.
                                                                                                       DNA mutation; hereditary genetic disease; sickle cell anemia; probe;
thalassemia; cystic fibrosis; haemophilia; cancer; K-ras; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human iPFK-2 DNA specific phosphorothicate sense oligonuclectide #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                     Probe used to detect a mutation in codon 12 of K-ras.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 3 A; 2 C; 10 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              229 AGTGGTGGTGGTGGCGCAG 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 5; Page 18; 36pp; French
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Acrestrecrestresascas 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAD11919 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                  01-MAR-2001; 2001WO-FR000604.
                                                                                                                                                                                                                                                                                                    01-MAR-2000; 2000FR-00002614.
                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-557783/62.
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                                                                                                                                                                                            WO200164945-A2.
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Synthetic.
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                                 26-NOV-2001
                                                                                                                                                                                                                                07-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                        Cailloux F;
                                                                                                                                                            Synthetic.
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AAH78394;
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The present invention relates to a method for screening a candidate therapeutic agent that inhibits kinase enzymatic activity of phosphofructoxinase isozyme (IPRA-2). Phosphofructoxinase catalyses the formation of fructose 2,6-biplosphate from fructose-6-phosphate. The method is used for identifying compounds that may be used to inhibit iPPR-2 activity, an enzyme that is over-expressed by cancerous cells. IPRK-2 is useful as diagnostic targets, drug screening targets and as antisense compounds that inhibit inflammation, cachexia and its translation in callular cyclosol as an anti-tumour treatment. The present sequence is human phosphofructoxinase isozyme (IPRK-2) DNA specific phosphorothicate (S-IPRF-2) used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human iPFK-2 DNA specific phosphorothioațe antisense oligonucleotide #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human, phosphofructokinase isozyme-2; iPPK-2; therapy; drug screening;
cancer; inflammation; cachexia; anti-tumour; phosphorothioate backbone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                  Screening for agents which inhibit the activity of the oncogenic phosphoglucomutase isozyme-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.8%; Score 13.6; DB 1; Length 20; ilarity 80.0%; Pred. No. 9.3e+02; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "Phosphorothioate backbone"
                                         /note= "Phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 4 A; 5 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                 Ŗ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1679 CCAACTACATCTTCCCTGCT 1698
                                                                                                                                                                                                                 Mitchell
1. .20
/*tag= a
/mod_base= OTHER
                                                                                                                                                                                     (PICO-) PICOWER INST MEDICAL RES.
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                                                                                                                                                                                                                                                                                                                  Example 4; Col 9; 29pp; English.
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                                                                                                                                                           97US-00961578.
                                                                                                                              98US-00183846.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAD11920 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-SEP-2001 (first entry)
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                                                                                                                                                                                                                 Chesney JA,
                                                                                                                                                                                                                                            WPI; 2001-424617/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
nes 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Key
modified_base
 modified base
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Synthetic.
                                                                                                                            30-OCT-1998;
                                                                                                                                                           31-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US6255046-B1
                                                                      US6255046-B1
                                                                                                03-JUL-2001.
                                                                                                                                                                                                                  Bucala RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAD11920;
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Matches
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Example 1, Page 33; 152pp; English.

the protein.

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(PICO-) PICOWER INST MEDICAL RES

98US-00183846. 97US-00961578.

30-OCT-1998; 31-OCT-1997;

03-JUL-2001

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The present invention relates to a method for screening a candidate therapeutic agent that inhibits kinase enzymatic activity of phosphofructokinase isozyme (IPFK-2). Phosphofructokinase catalyses the formation of fructose 2,6-biphosphate from fructose-6-phosphate. The method is used for identifying compounds that may be used to inhibit iPFK-2 activity, an enzyme that is over-expressed by cancerous cells. IPFK-2 is useful as diagnostic targets, drug screening targets and as antisense compounds that inhibit inflammation, cachexia and its translation in cellular cytosol as an anti-tumour treatment. The present sequence is human phosphofructokinase isozyme (IPFK-2) DNA specific phosphorothioate antisense oligonucleotide (AS-IPFK-2) used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Solute carrier family 6 neurotransmiter transporter; sectonin 4; SLC6A4; genotyping; allele specific oligonuclectide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated polynucleotide comprising a polymorphic variant for the solute carrier family 6 neurotransmitter transporter, serotonin member 4 gene for identifying drugs for treating disorders related to expression
                                                                                                                                                                                         Screening for agents which inhibit the activity of the oncogenic phosphoglucomutase isozyme-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Denton RR, Duda A, Nandabalan K, Sanchis A, Stephens JC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 3 A; 8 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                            Chesney JA, Mitchell RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 4; Col 9; 29pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-JUL-1999; 99US-0146290P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF74084 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                             WPI; 2001-424617/45.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-APR-2001
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                                                                                                                              Bucala RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAF74084;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 1312
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PCR primer used to amplify cDNA encoding a rat mu-subtype opioid receptor. The polynucleotide sequence is useful for producing a mu-type opioid receptor by standard recombinant techniques. The encoded protein is useful for producing monoclonal or polyclonal anti-receptor antibodies and to identify patterns of post-translational modifications and to elucidate associated G proteins. Wu receptor polynucleotides and solypeptidas are useful in identifying other receptor subtypes, in screening for new opioid ligands and for understanding mechanisms of opioid action e.g., drug addiction
                                                                                                                                                                                                                                                                                          ö
                                                                  The present invention relates to a polymorphic variant of a reference sequence for the solute carrier family 6 neurotransmitter transporter, serotonin member 4 (SLC6A4) gene or a fragment of it or a sequence complementary to the first sequence. The invention is used in producing a recombinant organism that can be used to express SLC6A4 for protein structure analysis and binding studies. A composition comprising a genotyping oligonucleotide is used to detect a polymorphism in the SLC6A4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel isolated DNA encoding mu-subtype opioid receptor protein which is useful for identifying other receptor subtypes, screening for mu opioid ligands and for understanding mechanisms of opioid action.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Primer used to amplify cDNA encoding rat mu-subtype opiate receptor.
                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mu-subtype opioid receptor; G protein; opioid; drug addiction;
PCR primer; ss.
                                                                                                                                                                                                                                                     Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                       Sequence 20 BP; 2 A; 4 C; 9 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                             217 GGCCTGGATGAGAGTGGTGG 236
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93US-00026140.
93US-00075447.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF85418 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-JUL-2001 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-342395/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (UHLG/) UHL G R.
(EPPL/) EPPLER C M.
(WANG/) WANG J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rattus rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-MAR-1992;
26-FEB-1993;
11-JUN-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1313
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Gaps

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SQ Sequence 20 BP; 3 A; 5 C; 6 G; 6 T; 0 U; 0 Other;

ö Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels

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RESULT 13: AAH49228/0

AAH49228 standard; DNA; 20 BP AAH49228; Anti-ICAM oligonucleotide XXI.

(first entry)

26-NOV-2001

Polyamide-oligonuclectide derivative; anticancer; antiproliferative; antiviral; heparctropic; vasotropic; antisense inhibition; ribozyme; integrin; cell-cell adhesion; cancer; restenosis; stability; PNA; peptide nucleic acid; ss.

Synthetic.

EP1113021-A2

08-MAR-1995; 2001EP-00104012

14-MAR-1994; 94DE-04408528. 08-MAR-1995; 95EP-00103332.

(AVET ) AVENTIS PHARMA DEUT GMBH

Thlmann E, Breipohl G;

WPI; 2001-591267/67.

New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents for treating e.g. cancer, also as diagnostic probes and primers.

Disclosure; Page 24; 54pp; German.

This invention describes novel polyamide-oligonucleotide derivatives (I) and their physiologically acceptable salts of formula P((DNA)-Li)\_g(PNA-CCCC) and their physiologically acceptable salts of formula P((DNA)-Li)\_g(PNA-CCCC) and their physiologically acceptable salts of formula P((DNA)-Li)\_g(PNA-CCCC) and their physiologically acceptable salts of two or more adjacent lefters at least 2; x = 1-20; DNA = mucheic acid cuch as DNA or RNA or their known derivatives); Li = covalent linkage between DNA and PNA, i.e. a bond or a residue containing at least one nucleobase different from thymins; and F. F. = containing at least one nucleobase different from thymins; and F. F. = and groups and/or are connected through a covalent bond. The products of the invention have anticaneer, antipoliferative, antiviral, hepatotropic and vasotropic activity and can be used for the inhibition of gene expression by antisense, ribozyme, sense, or triple-helix methods, or by viruses (human immune deficiency, herpes simplex, influenza, vesicular stomatitis, hepatitis B or papilloma), or mediated by integrins or cell-celtenosis particularly as antisense reagents. They are also useful in heterogeneous or homogeneous assays, as primers or probes, particularly where the target is amplified before being deceted by hybridization, for the increased affinity for complementary strands and better stability in the increased affinity for complementary strands and better stability in the disadvantages, i.e. have improved cellular uptake, do not aggregate in aqueous solution, and have reduced affinity for purification are requence specificity. They are

more active than either DNA or PNA oligomers. When used as probes, (I) show different responses to base-pair mismatches in the DNA and PNA segments, allowing better discrimination between pathogenic and non-pathogenic conditions such as the transition from proto-oncogene on conceptus, also, when used as primers, with the PNA segment at the 5'-end, they produce amplicons resistant to 5'-exonuclease, allowing this enzyme to be used to eliminate RNA or DNA primers. The DNA component allows additional reactions not possible with PNA alone, e.g. 3'-tailing and (I) may be incorporated into a gene. AAH49208-AAH49264 represent oligonucleotides used to illustrate the method of the invention 888888888888888

Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;

. 0 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ative 0; Mismatches 4; Indels Query Match
Best Local Similarity 80.0°
Matches 16, Conservative

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226 GAGAGTGGTGGTGGCGG 245 ઠે

20 GAGAGGGAAGTGGTGGGGG 1

RESULT 13 AAF87785/

AAF87785 standard; DNA; 20 BP

AAF87785;

(first entry) 11-JUL-2001 DNA 20-mer ASO (antisense DNA oligomer) SEQ ID NO:12.

Antisense DNA oligomer; ASO; identification; gene therapy; target; Nearest-Neighbour Thermal Stability Program; thermal melting temperature; phosphorothioate; disease treatment; DNA:RNA hybrid; ss.

Synthetic.

JS6183966-B1

06-FEB-2001.

99US-00235614. 22-JAN-1999; 94US-00320507. 97US-00808474. 07-OCT-1994; 03-MAR-1997;

(TEXA ) UNIV TEXAS SYSTEM.

Gray DM, Clark CL;

WPI; 2001-280429/29

Identifying a nucleic acid having a sequence capable of targeting a gene of interest, for identifying nucleic acids for gene therapy, comprises using the Nearest-Neighbor Thermal Stability Program.

Example 1; Col 21-22; 43pp; English.

The present invention describes a method for the identification of a nucleic acid having a sequence capable of targeting a gene of interest comprises. (a) a first database having a list of stability values for independent combinations of N(x); (b) a computing unit having a means for inputting data comprising N(x), data list, defining a nucleic acid sequence of interest to be targeted to provide a second database, and (c) a program capable of processing the first and second database; and (c) a program capable of processing the first and second database to N(x) comparison, and a stability value of a nucleic acid sequence capable of targeting the gene of interest. The method is useful for identifying a nucleic acid having a sequence capable of targeting a gene of interest. The method may be used to obtain thermodynamic parameters for 20 combinations of nearest-neighbour base pairs of DNA:RNA hybrid sequences. The Nearest-Neighbour Thermal Stability Program can process data for use in 

schultz621-3.rng

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Gaps

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The present invention describes a method for the identification of a nucleic acid having a sequence capable of targeting a gene of interest comprises: (a) a first database having a list of stability values for independent combinations of N(x), (b) a computing unit having a means for inputting data comprising N(x), data list, defining a nucleic acid a geometrien, and a stability value of a nucleic acid database; and a stability value of a nucleic acid database to N(x) comparation, and a stability value of a nucleic acid database to N(x) argeting the gene of interest. The method is useful for identifying a nucleic acid having a sequence capable of targeting a gene of interest. The method is useful for identifying a nucleic acid having a sequence capable of targeting a gene of interest. The method way be used to obtain thermodynamic parameters for 20 combinations of nearest-neighbour base pairs of DNA:RNA hybrid sequences. The Nearest-Neighbour Thermal Stability Program can process data for use in calculating thermal melting temperatures for phosphorothicate DNA:RNA hybrids. The program can be readily extended to predict the most stable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antisense DNA oligomer, ASO; identification, gene therapy; target;
Nearest Neighbour Thermal Stability Program; thermal melting temperature;
phosphorothicate; disease treatment; DNA:RNA hybrid; human; ICAM-1;
intracellular adhersion molecule 1; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying a nucleic acid having a sequence capable of targeting a gene of interest, for identifying nucleic acids for gene therapy, comprises using the Nearest-Neighbor Thermal Stability Program.
calculating thermal melting temperatures for phosphorothicate DNA:RNA hybrids. The program can be readily extended to predict the most stable triplex-forming sequences, or antigene oligomers. The present sequence represents a DNA 20-mer ASO (antisense DNA oligomer) sequence which is used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human intracellular adhersion molecule 1 (ICAM-1) S-ASO SEQ ID NO:15
                                                                                                                                                                                                           ô
                                                                                                                                                               0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ive 0; Mismatches 4; Indels
                                                                                                                       Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                     226 GAGAGTGGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                          AAF87788 standard; DNA; 20 BP
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                                                                                                                                                                                                           Matches 16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Clark CL;
                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US6183966-B1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-OCT-1994;
03-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
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                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                        RESULT 1316
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triplex-forming sequences, or antigene oligomers. The present sequence represents an antisense DNA oligomer designated S-ASO targeted to the

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The invention relates to Detecting a collagen gene alteration associated with a pathological condition in a human subject by obtaining from the subject a sample nucleic acid containing a portion of at least 15 consecutive nucleotides of the segment of the COLIA1 gene extending in the 5' to 3' direction from 78 nucleotides of intron 27 located adjacent exon 28 through the 3' end of intron 17, where the portion contains an intronic nucleotide and a first and second site, determining the sequence of the portion contains an intronic nucleotide and a first and second site, determining the sequence of the portion with the corresponding consensus sequence of the COLIA1 gene where a difference between the sequence of the portion and the consensus sequence indicates the presence of the collagen alteration in the subject. The method is used for detecting abnormalities in a COLI or COL9 gene is useful for determining whether a subject is afflicted with pathological conditions associated with an altered collagen gene such as osteoporosis, multiple epiphyseal dysplasia, osteogenesis imperfecta, shortness of stature and consumently in a collagen gene is also useful for designing a therapeutic nucleotide or gene therapy agent which can be administered to the subject to correct or alleviate the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detecting collagen gene alteration, useful for diagnosing osteoporosis, multiple epiphyseal dysplasia, osteogenesis imperfecta, shortness of stature and low bone density in humans.
human intracellular adhersion molecule 1 (ICAM-1), which is used in an
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; collagen; COLIA1; COLIA2; COL9A1; COL9A2; COL9A3; ss; osteoporosis; multiple epiphyseal dysplasia; osteogenesis imperfecta; shortness of stature; low bone density; gene therapy; PCR primer.
                                                                                                                                 Gaps
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Paassilta P;
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                                                                                     Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
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ick M, Colige A, Early J,
Pihlajamaa T, Vuoristo M,
                                                         Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                 Human COL9A2 PCR primer 1 for Exon 15.
                       example from the present invention
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THOMAS.
                                                                                                                                                                     226 GAGAGTGGTGGTGGCGG 245
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Larson A, Pack M,
Annunen S, Pihlaj
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94US-00212322.
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                                                                                             0.8%;
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                                                                                                                                 16; Conservative
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(UYJE-) UNIV JEFFERSON
(UYOU-) UNIV OULU.
                                                                                           Query Match
Best Local Similarity
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Ala-Kokko L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US6265157-B1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-OCT-1997;
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                                                                                                                                                                                                                                                                 RESULT 1317
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Query Match
Best Local Similarity
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modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABL01636;
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                                                                                                                                                                                                                                                                                                                         Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Use of aggregates comprising VP22 protein/polypeptide with the transport function of VP22 and oligonucleotides/polynucleotides with disaggregating agent, useful for treating or preventing cell proliferation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to the use of aggregates comprising VP22 (viral potein 22) protein (or a polypeptide with the transport function of VP22), and oligomuclectides or polymuclectides with a disaggregating agent e.g. Aluminium phthalocyanine (AT) (simultaneously or sequentially) to treat target cells by delivering molecules to the cells and/or preventing cell proliferation and/or killing cells. Also included are a method of treating target cells to deliver molecules to the cells and/or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'note= "C is covalently linked to a fluorescein moiety"
                                                                                                                                                                                                                                                                                                                                                             VP22; viral protein 22; ss; cytostatic; antipsoriatic; dermatological; diaasgregating agent; Aluminium phthalocyanine; cell proliferation; apoptosis; psoriasis; eczema; skin cancer; restenosis; scarring; Intracellular-adhesion molecule; ICAM.
abnormality. The method is useful for detecting mutations in both the coding and non-coding sequences of any of the COLI or COL9 genes. Therefore the method can be used to detect colladen gene alterations which affect either the primary sequence of a collagen protein chain, splicing of the mRNA encoding such chains or regulation of expression the genes encoding such chains. The present sequence is a PCR primer which amplifies a nucleic acid from a collagen gene of the invention
                                                                                                                                                    Gapa
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                                                                                                                        0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ve 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                      Intracellular-adhesion molecule, ICAM, oligonucleotide.
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/label= OTHER
/note= "Phosphorothioate backbone"
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                                                                                                  Sequence 20 BP; 2 A; 7 C; 5 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                          1632 CAGCAGGCAGCGGCTGGAGG 1651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Page 17; 31pp; English
                                                                                                                                                                                                  20 cagaaggcagcrccrccaaag 1
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/label= OTHER
                                                                                                                                                                                                                                                                BP
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                                                                                                                                     80.08
                                                                                                                                                                                                                                                                ABK12803 standard; DNA; 20
                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                    Conservative
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                                                                                                                                   Best Local Similarity
Matches 16; Conser
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modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                          Unidentified
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                                                                                                                                                                                                                                                                                       ABK12803;
                                                                                                                            Query Match
                                                                                                                                                                                                                                        RESULT 1318
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cells to the aggregate composition cited above, which can promote disaggregating agent cited above, which can promote cells to the disaggregating agent cited above, which can promote disaggregation of the aggregate composition in cells, where steps (a) and (b) are carrier out simultaneously or sequentially. a product comprising the aggregate composition and the disaggregation of these components, either sequentially or together, a pharmaceutical comprising the aggregate composition and the disaggregating agent, in combination with a pharmaceutical excipient and a cell preparation obtainable by treating the target cells in vitro as cited in the method above. The aggregate composition and disaggregating agent are useful in the manufacture of a medicament for treating diseases or target cells, and/or preventing cell proliferation controllary, or xilling cells. These compositions, product or pharmaceutical are useful in therapy, particularly for manufacturing medicaments for useful in therapy, or as a medicament for delivering molecules to cells to prevent creating psoriasis, eczema, skin cancer, restenosis and scarring. The present sequence is an oligonuclectide encoding an intracellular-adhesion mached to the immedicament for manufacture of and scarring. The manufacture of the prevent creating psoriasis, eczema, skin cancer, restenosis and scarring. The mached to the immedicament for mached to demonstrate the mached to the property of the immedicament of the property of the immedicament of the mached to demonstrate the mached to the immedicament of the mached to the mached 
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prevent their proliferation and/or kill them comprising: (a) exposing the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note= "linked to one of the peptides shown in ABB04517 and ABB04518 to form a PNA-peptide conjugate"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /*tag= a
/note= "This sequence is a peptide nucleic acid, i.e. i
contains a polyamide backbone instead of a deoxyribose
backbone"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.6; DB 1; Length 20; 10.0%; Pred. No. 9.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      226 GAGAGTGGTGGTGGTGGCGG 245
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            method of the invention
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3 11:01:46 2004

Mon May

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New peptide nucleic acid derivatives, useful e.g. for tumor treatment and diagnosis, contain terminal, deprotonizable phosphoryl groups for e.g. improved solubility.
                                                                                                                                                                                    The present invention relates to peptide nucleic acid (PNA) derivatives having at the C., and optionally N., terminus one or more phosphoryl groups, at least one of which contains one or more deprotonisable groups, preferably hydroxy or mercapto. These PNAs are useful in the treatment of tumours or any disease associated with (over) expression of particular genes, including viral infections, vitiligo or other pigmentation disorders, and asthma. The present sequence is a peptide nucleic acid described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                           Disclosure; Page 22; 93pp; German.
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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels Query Match
Query Match
Best Local Similarity 80.v.,
Best Local 16; Conservative

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Gaps ö

> 226 GAGAGTGGTGGTGGTGCGG 245 cacaccaacrecrecresses 1 20 ò

ABK86419 standard; DNA; 20 BP (revised)
(first entry) ABK86419; ABK86419

HHV4a nuclear protein EBNA2 forward real time PCR primer. 07-AUG-2003 26-AUG-2002 

Human herpes virus infection, ss; real time PCR; primer; HHV1; HHV2; HHV3; HHV4; HHV5; HHV6; HHV7; HHV8; latent membrane protein-1; LMP-1; nuclear protein EBNA2; intermediate early protein; IE; glycoprotein B; glycoprotein.

Human herpesvirus 4.

WO200234953-A2.

02-MAY-2002.

12-OCT-2001; 2001WO-US031892

24-OCT-2000; 2000US-0242903P.

(HARR/) HARRIS R B.

Harris RB, Reymolds TR;

WPI; 2002-463369/49.

Detecting infection of human herpes virus type or strain by informatic analysis of gene sequence using probe and primers capable of directing amplification of target sequence and interpolating the virus.

Claim 18; Page 35; 67pp; English.

The invention relates to detecting (MI) infection by human herpes virus (HIV) by performing informatics analysis of gene sequences from different HHV types or strains (e.g. HHVI-HHVS) to identify target segment (TS), selecting probe and primers capable of directing amplification, amplifying TS, interpolating HHV number by comparing number of amplification cycles (NAC) for detecting a segment of genomic viral DNA quantity of TS. Also included are cloning a segment of genomic viral DNA

C from the identified TS (MZ), a polymotectice (1) molecule having any one crown the identified TS (MZ), a polymotectice (1) molecule having any one comprising a fragment of a gene that encodes an HHV1 thymidine kinase protein from a drug-resistant HHV2 thymidine kinase protein from a drug-resistant HHV2, thymidine kinase protein from a drug-resistant HHV2, thymidine kinase protein, HHV4 latent membrane protein. HHV4 latent membrane protein. HHV4 latent membrane protein. HHV5 intermediate early protein, HHV6 allycoprotein BDNA, an HHV6 allycoprotein BDNA, HHV6 intermediate early protein, HHV6 allycoprotein Bor an HHV6 jlycoprotein B, and an HHV8 K1 glycoprotein (i.e. the target sequences), conclear protein, HHV6 and HHV6 intermediate early protein, an HHV7 glycoprotein B, and an HHV8 K1 glycoprotein (i.e. the target sequences), and a fluorosenic probe, and a fluorescent reporter group covalently attached to the probe, (M1) is useful for detecting infection by a tarached to the probe, (M1) is useful for creating a screening platform a trached to the probe or a strain of HHV in a sample from an individual consider the proper or a strain of HHV in a sample from an individual consider the offectiveness of pharmaceuticals by measuring the ability of anti-viral agents to mediate HHV propagation. (M1) allows accurate and consider from infection by another strain of the same HHV type. The method allows detection of infection by HHV that cannot be detected by conventional PCR approaches. In addition to determining specific acan conventional PCR approaches. In addition to determining specific acan conventional pCR approaches. In addition to determining specific acan conventional pCR approaches. In addition to determining specific acan conventional PCR approaches. In addition to determining specific acan conventional pCR approaches. In addition to determining specific acan conventional pCR approaches. In addition to determining specific acan conventional pCR approaches. In addition to determine the HHV4 muclear protein EB ö from the identified TS (M2), a polynucleotide (I) molecule having any one ö 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ive 0; Mismatches 4; Indels Sequence 20 BP; 2 A; 7 C; 4 G; 7 T; 0 U; 0 Other; 1542 GGCCAGCCTTCGGTCTTCGT 1561 Local Similarity 80.0 es 16; Conservative Query Match Matches à

1 GTCCAGTCCTCGGTCTTCAT 20

AAD41528/

AAD41528 standard; DNA; 20

AAD41528;

30-OCT-2002 (first entry)

Collagenase 1 gene specific reverse RT-PCR primer.

Marker, vitamin D analogue, antiproliferative, cancer, osteodystrophy; multiple sclerosis, osteoporosis, osteomalacia; hyperparathyroxidism; genoprotective, epidermal wound; chemoprotective; DNA repair mechanism; cytostatic; psoriasis; neuroprotective; vulnerary; RT-PCR; primer; ss.

Unidentified

WO200244403-A2.

06-JUN-2002.

28-NOV-2001, 2001WO-CA001689 

29-NOV-2000; 2000US-0253746P.02-MAY-2001; 2001US-0287729P.

(UYMC-) UNIV MCGILL

White JH;

WPI; 2002-537458/57

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The invention relates to a marker for testing analogues of vitamin D expected to be effective in reducing aberrant activity of vitamin D responsive cell, comprises at least one gene pertinent to the action of vitamin D for testing the analogues and determining analogues capable of regulating the gene, and is indicative of a chemopreventive or chemoprerelating analogues of vitamin D expected to be effective in reducing aberrant activity of vitamin D-responsive cell or for testing analogues of vitamin D-responsive cell or for testing analogues of vitamin D-responsive coll and for testing a berrant activity of vitamin D-responsive cell, and for treating a disorder characterised by an aberrant activity of vitamin D-responsive cell, where the disorder is selected from cancer, psoriasis, multiple cell, where the disorder is selected from cancer, psoriasis, multiple cell, where the disorder is selected from cancer, psoriasis, multiple cell typerparathyroidism. The invention is useful for identifying regulated the principal for protecting against in vivo DNA damage, for inducing in vivo DNA repair mechanisms in a mammal, or for reducing or preventing DNA damage to the sixin of a mammal, preferably the invention is useful as a marker for the activity of DNA repair mechanisms. The invention is useful as a marker for the activity of DNA repair methibiting an enzyme which metabolises 1.25-dihydroxyvitamin D3 The invention is useful for testing compounds susceptible of inhibiting an enzyme which metabolises 1.25-dihydroxyvitamin D3 The invention is useful for treating expensed sequence is collagenase 1 gene specific RT-PCR primer
                Novel marker for testing analogs of vitamin D expected to be effective in reducing aberrant activity of vitamin D-responsive cell, comprises gene pertinent to action of vitamin D for testing the analogs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated human or mouse targeting peptide useful for targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HK33; housekeeping gene 33; ARF; tumour; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
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(NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY
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                                                                                                           Example 2; Page 48; 89pp; English
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Best Local Similarity 80.0°
Matches 16; Conservative
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The invention relates to the screening of antitumour agents by using the interaction between ARP protein and HK33 (Housekeeping 33) protein.

Nuclear transport of ARF protein is inhibited by the expression of HK33 gene, and thus p53-dependent transcription is suppressed. In immortalised cells, moreover, the expression of HK33 gene is significantly elevated. The invention provides a method of screening an antitumour agent by using the interaction between ARP protein and HK33 protein. It also provides a method for utilisation of HK33 protein and agene encoding it in the examination of tumour related disease. The current sequence represents a ARP/HK33 protein related primer
delivery of therapeutic agents, for inhibiting angiogenesis, tumor growth or pregnancy, and for inducing apoptosis or weight loss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "Chimeric phosphorothioate oligonucleotide having 2'-methoxyethyl (2'-MOE) wings"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Dean NM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ntisense compound that hybridizes and inhibits nucleic acid og a natural dominant negative regulator of caspase B, FLIP-c, for preventing or delaying infection, inflammation or tumor
                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mouse FLIP-c chimeric phosphorothioate oligonucleotide SEQ ID NO:36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FLIP-c; caspase 8 dominant negative regulator; antiinflammatory; anti-tumour; FLIP-c inhibitor; apoptosis; antisense gene therapy; phosphorothioate; antisense modulation; infection; inflammation;
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                                                                                                                                                                                                                                                                                     0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
cive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                        Sequence 20 BP; 6 A; 4 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                 Example 6; Page 76; 81pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                         1468 CIGGGGGGGCGGAICCACAA 1487
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modified_base
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Gaps

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The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule (II) encoding a natural dominant regative regulator of caspase 8, Filp-c, where (I) specifically hybridises with and inhibits expression of the protein, or specifically hybridises with at least an 8-nucleobase portion of an active site on (II), (I) has antiinflammancory and anti-tumour activities. (I) is an inhibitor of Filp-c expression, a modulator of apoptosis and can be used in antisense gene therapy. (I) is useful for inhibiting the expression of Pilp-c in cells or tissues, and for treating an animal having a disease or condition associated with Filp-c. (I) is also useful for modulating apoptosis in a cell, where a caspase such as caspase 8, caspase 3 or caspase 7 is activated, and the Filp-c is the long form of Filp-c. (I) is also useful for diagnostics, therapeutics, prophylaxis, as research reagents and kits, for distinguishing functions of various members of biological pathway, and in antisense gene therapy. (I) is also useful compation. The present sequence represents mouse Filp-c inhibiting contact of the prophylactically, e.g., to prevent or delay infection, inflammation or tumour formation. The present sequence represents mouse Filp-c inhibiting contact which it is also useful for which it is a modulation or tumour formation. The present sequence represents mouse Filp-c inhibiting contact which it is a modulated by infection, inclement when we have a contact which it is a contact when the present sequence represents mouse Filp-c inhibiting contact when the present sequence represents mouse Filp-c inhibiting contact when the present sequence represents mouse Filp-c inhibiting contact when the present sequence represents mouse Filp-c inhibiting contact when the present sequence represents mouse Filp-c inhibiting contact when the present sequence represents mouse Filp-c inhibiting contact when the present sequence represents mouse Filp-c minibiting contact when the present sequence represents wings, which is used in an example from the present invention 

Sequence 20 BP; 2 A; 6 C; 4 G; 8 T; 0 U; 0 Other;

Query Match

0.8%; Score 13.6; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 9.3e+02;
Matches 16; Conservative 0; Mismatches 4; Indels 661 TACAAAGGCAAAAGCAAGCT 680 20 TACACAGGCAGAGGCAAGAT 1 à

Gaps

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ABQ74294 standard; DNA; 20 BP. ABQ74294; RESULT 1324 

14-OCT-2002 (first entry)

Human leukocyte antigen DQB1 locus PCR primer DQB1-ex2F.

Human leukocyte antigen; DQB1; DQA1; aspermia; examination; detection; PCR primer, ss.

Homo sapiens.

JP2002153300-A.

28-MAY-2002.

24-NOV-2000; 2000JP-00358486.

24-NOV-2000; 2000JP-00358486.

INOK/) INOKO H.

WPI; 2002-552748/59.

Examination of aspermia comprising investigating an allele with correlation to aspermia if it is detected in the HLA-DQA1 locus.

Example 2; Page 4; 7pp; Japanese.

The present invention describes a method for the examination of aspermia in which, if an allele showing correlation to aspermia is detected in the Muman leukocyte antigen (HLA)-DQA1 locus, it is investigated, Also described is a method for the examination of aspermia in which one of the following (a) to (e) is investigated; (a) if the base sequence of the DNA corresponding to codon 64 of HLA-DQA1 gene is AGA; (b) if the base sequence of the DNA corresponding to codon 66 of HLA-DQA1 gene is AGG; (c) if the base sequence of the DNA corresponding to codon 68 of HLA-DQA1 gene is GTG; (d) if the base sequence of the DNA corresponding to codon 69 of HLA-DQA1 gene is GTG; (e) if the base sequence of the DNA corresponding to codon 69 of HLA-DQA1 gene is GTG; (d) if the base sequence of the DNA corresponding to codon 69 of HLA-DQA1 gene is GTG; (e) if the base sequence of the DNA corresponding to codon 69 of HLA-DQA1 gene is GTG; or (e) if the base sequence of the DNA

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corresponding to codon 71 of HLA-DQA1 gene is GTG. The method is useful for the examination of aspermia. The present sequence represents a PCR primer for the HLA-DQB1 locus, which is used in an example from the present invention
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                                                                                                                                                                                  0
                                                                                                                                         0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.38+02; tive 0; Mismatches 4; Indels
                                                                                                 Sequence 20 BP; 3 A; 6 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                  1427 ICTCCGCAGAGGATGCCATG 1446
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                                                                                                                                     Query Match
Best Local Similarity 80.0 Matches 16; Conservative
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Human SAC1 gene-specific oligonucleotide PCR primer #45. AAS97894 standard; DNA; 20 BP. (first entry) 12-MAR-2002 AAS97894; 1325

Human, mouse, SAC1, carbohydrate, sweetener; ethanol, alcoholism, ss; obesity, diabetes, transgenic embryo, body tissue, body fluid, pancreas, blood; tongue, PCR primer, anorectic, antidiabetic, gene therapy; protein replacement therapy.

Homo sapiens

WO200183749-A2.

08-NOV-2001.

25-APR-2001, 2001WO-US013387

28-APR-2000; 2000US-0200794P. 28-JUL-2000; 2000US-0221419P. 10-NOV-2000; 2000US-0247443P.

(WARN ) WARNER LAMBERT CO. (MONE-) MONELL CHEM SENSES CENT.

× Ľ Ś I De Jong PJ, Chatterjee A, Tordoff MG; Bachmanov AA, Beauchamp GK, Ohmen JD, Reed DR, Ross D,

WPI; 2002-075162/10.

Novel isolated polypeptide comprising variant form of mouse or human SAC1 polypeptide, and is associated with altered preference for carbohydrates or other sweeteners, useful for preventing obesity, diabetes, alcoholism.

Claim 14; Page 91; 239pp; English.

The invention relates to an isolated polypeptide, comprising a variant form is a described form to find man SACI polypeptide. The variant form is associated with altered preference for carbohydrates, other sweeteners or ethanol. The polypeptide and its associated DNA sequence can be produced by recombinant techniques and is useful for preventing obesity, diabetes or alcoholism associated with SACI expression. The sequences are useful in screening for drugs and sweeteners. Recombinant call lines and transgenic correcting for drugs and sweeteners. Recombinant call lines and transgenic embryos may be used in screening for and identifying agents that induce or repress function of SACI. Predisposition to diabetes, obesity or alcoholism can be ascertained by testing any fluid or tissue of a human succession to diabetes, obesity and/or alcoholism and may provide a predisposition to diabetes, obesity and/or alcoholism and may provide a predisposition to diabetes, obesity and/or alcoholism and may provide a diagnostic mark. The polymucleotide can be detected in a biological sample by contacting the DNA with a probe to form a hybridiaation complex which is then detected. The sequences represent cDNA encoding human and AXS 77894

AAS 97894

schultz621-3.rng

(first entry)

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23-APR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 highest expression gene group consisting of 100 genes which show the highest expression among the genes expressed in human maturation/ activation DC. Also described are: (1) a protein expressed by the above human maturation/activation DC expression gene; (2) an antibody against the protein; and (3) an antagonist against the expression of each gene belonging to the above gene group. The gene group is useful for the treatment and the diagnosis of various human diseases related to human DC. ABL42927 to ABL42956 represent PCR primers for human maturation/ activation DC expression genes, which are used in the exemplification of
                                                                                                                                                                                                                                          Human; maturation/activation dendritic cell expression gene; maturation; activation; dendritic cell; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes a human maturation/activation dendritic
                                                              Gaps
                                                                                                                                                                                                                      Maturation/activation dendritic cell expression gene PCR primer #328.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
mouse SAC1 polypeptides and PCR primers specific for the SCA1 genes
                                                                                                                                                                                                                                                                                                                                                                                                                                 Human maturation/activation dendritic cell expression gene group.
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                                          Length 20;
                                                             4; Indels
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                  Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 U; 0 Other;
                                        Score 13.6; DB 1;
Pred. No. 9.3e+02;
0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                        (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 39; 41pp; Japanese.
                                                                                 851 TGGACAAGGACCTGAAGCAG 870
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                                                  11 Similarity 80.0%;
16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                     JP2001327293-A.
                                                                                                                                                                                                                                                                         sapiens
                                                                                                                                                                                                  12-APR-2002
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                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                             ABL42954;
                                        Query Match
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                                                   Local
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AC ABK3
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Human glioma-associated oncogene-1 antisense oligonucleotide ISIS 124842.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovoacular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint;
                                                                   Human, glioma-associated oncogene-1 associated disease, infection,
inflammation; tumour formation; cytostatic; antiinflammatory; antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel antisense compounds targeted to nucleic acids encoding glioma-associated oncogene-1, for modulating the gene expression and treating diseases associated with expression of the oncogene in humans.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .;
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Pred. No. 9.3e+02;
0; Mismatches 4; Indels
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Best Local Similarity 80.00,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bennett CF, Wyatt J;
                                                                                                                                                        phosphorothicate; ss.
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                                                                                                                                                                                                                                        Homo sapiens
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administering at least one antianglogenic nucleic acid molecule. Also nucleic acid molecule. Also nucleic acid molecule. Also nucleic acids, and instructions for administering the antianglogenic having a condition characterised by unwanted anglogenesis. The method is tuesful for inhibiting anglogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of premeturity, macular degeneration, conneal graft rejection, neovascular glaucoma, retrolencal fibroplasia, neovascularisation, telangiectasia, haemophiliac joints, anglofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scars. The present sequence is an antianglogenic nucleic acid of the invention
                                                                                                                                                                                                                                                                                                      Inhibiting angiogenesis in a subject, involves administering at least one antiangiogenic nucleic acid molecule to the subject.
angiofibroma, wound granulation, intestinal adhesion, atherosclerosis, scleroderma, hypertrophic scar.
                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to inhibiting angiogenesis in a subject,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antibody-induced cell lysis; cancer; immunostimulatory; CD20; anglogenesis; metastasis; cytostatic; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immunostimulatory nucleic acid SEQ ID NO: 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         555 CCTCAGCCGCCGCTCCGTC 574
                                                                                                                                                                                                                                                                                                                                                    Claim 2; Page 23; 276pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 CCGCCGCCGCCGCCGCC 1
                                                                                                                                                                                                          (COLE-) COLEY PHARM GROUP INC.
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                                                                                                                                             14-DEC-2001; 2001WO-US048458.
                                                                                                                                                                           14-DEC-2000; 2000US-025534P.
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Best Local Similarity 80.0%;
Matches 16; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                                              WO200253141-A2
                                                                                                                                                                                                                                          Bratzler RL;
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                                                                                                              11-JUL-2002
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                                                 Synthetic
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ABL39008/c
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The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, brass cancer, cervical cancer, olon and rectum cancer, connective tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, melanoma, myeloma, can cart, ran cavity cancer, oancer, acident cancer, pancreatic cancer, prostate cancer, rabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /mod_base= OTHER
/note= "OTHER= Phosphorothioate internucleotide linkages,
bases 1-5 and 16-20 are 2'-methoxyethoxy (2'-MOE) bases.
All cytidine bases are 5-methylcytidines"
                                                                                               administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of developing cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; mouse; Protein Phosphatase 2 catalytic subunit alpha; diabetes; cancer; infection; inflammation; tumour formation; cytostatic; antidiabetic; phosphorothioate; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                  Disclosure; Page 199; 312pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                 exemplification of the invention
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(IOWA ) UNIV IOWA RES FOUND.
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                                 Hartmann
                                                                  WPI; 2002-154611/20.
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Best Local Similarity
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modified_base
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                                 Weiner G,
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0; Gaps

Score 13.6; DB 1; Length 20; Pred. No. 9.3e+02; 0; Mismatches 4; Indels

Mon May

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New antisense oligonucleotides targeted to nucleic acid encoding Protein Phosphatase 2 catalytic subunit alpha, useful in treating diseases associated with the aberrant expression of Protein Phosphatase 2 catalytic subunit alpha.
                                                                                                                                                                                                                                                                                                                        Claim 3; Page 94; 153pp; English.
   Wyatt JR;
                                                                     WPI; 2002-657604/70.
Monia BP,
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The present invention relates to antisense oligonucleotides and methods for modulating the expression of human or mouse Protein Phosphatase 2 catalytic subunit alpha. The antisense oligonucleotides are useful for inhibiting the expression of Protein Phosphatase 2 catalytic subunit alpha and for treating diseases or conditions associated with aberrant expression of Protein Phosphatase 2 catalytic subunit alpha. Such diseases include diabetes and cancer. The antisense oligonucleotides are also useful for diagnostics, therapeutics, and prophylaxis, e.g. to prevent or delay infection, inflammation or tumour formation. They are also useful as research reagents for distinguishing between functions of various members of a biological pathway, ABS65400-ABS65477 represent human or mouse Protein Phosphatase 2 catalytic subunit alpha antisense oligonucleotides which comprise a phosphorothioate backbone

Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;

Gaps .. 0 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels 16; Conservative Similarity Query Match Best Local S Matches 16

51 AGCAGTGTGACTGCTGAAAC 70 AGCAGTGTAACTGTTTCAAC 20

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491/c ABA97491 standard; DNA; 20 BP RESULT 1331 ABA97491/

ABA97491;

(first entry)

16-APR-2002

Peptide nucleic acid, PNA; polyamide backbone; phosphoryl radical; cytostatic; virucide; dermatological; antiasthmatic; cancer; antisense; viral infection; vitiligo; pigmentation disorder; asthma; ss. ICAM-1 targeted antisense peptide nucleic acid SEQ ID NO: 37

Unidentified

Synthetic.

WO200179249-A2 25-OCT-2001

07-APR-2001; 2001WO-EP004027

18-APR-2000; 2000DE-01019136.

(AVET ) AVENTIS PHARMA DEUT GMBH Uhlmann E, Breipohl G, Will DW

WPI; 2002-089643/12.

peptide nucleic acid derivatives, useful e.g. for treating tumors and prosis, have N-terminal phosphoryl residue for improving e.g. diagnosis, have N-ter solubility in water.

Disclosure; Page 87; 96pp; German

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                 The present invention relates to peptide nucleic acid (PNA) derivatives. These can be used in the treatment of cancer, viral infections, vitiligo or other pigmentation disorders, and asthma. The present sequence is an oligonucleotide fragment of a PNA described in the exemplification of the
                                                                                                                                                                                                       Gaps
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                                                                                                                                                              Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                          Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                              0.8%;
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ABK68325 standard; DNA; 20

ABK68325;

(first entry) 02-JUL-2002

Mouse HYPLIP1 locus specific primer 273L17S #2.

anorectic, HYPLIP1; Mouse, primer, antilipaemic, cardiant, hypotensive, anorectic, HYPLI FCHL1; lipid disorder, familial combined hyperlipidaemia; coronary artery disease, atherogenic lipoprotein phenotype, cancer; hyperapobetalipoproteinaemia, hypertriglyceridaemia; obesity; ss; familial dyslipidaemic hypertension; syndrome X; insulin resistance; hypercholesterolaemia; chromosome 3.

Мив вр

WO200220847-A2.

14-MAR-2002

07-SEP-2001; 2001WO-US028181.

08-SEP-2000; 2000US-0231322P.

(REGC ) UNIV CALIFORNIA.

Chatterjee A, , Wu C, s, Castellani LW, oss D, Tafuri Ross D, Bodnar JS, Ohmen J,

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Lusis

De Jong P,

WPI; 2002-339808/37.

Novel HYPLIPI and FCHL1 genes and their sequence variations associated with lipid disorder and cancer, useful for prognosis, diagnosis and treatment of lipid disorders.

Claim 11; Page 76; 102pp; English.

This invention relates to the CDNA and protein sequences of novel proteins HYPLIP1 or FCHL1 and to sequence variations within these genes that have been shown to be associated with lipid disorders.

That have been shown to be associated with lipid disorders.

Oligonuclectide probes that hybridise to the CDNA sequence are useful for reasoring in the sample. A host call transformed with the CDNA of the mRNA invention is useful for producing the protein by recombinant means.

Pharmaceutical compositions based on the sequences of the invention are useful for preventing a lipid disorder associated with a varpession of FCHL1 such as familial combined hyperlipidaemia, coronary artery disease, atherogenic lipoprotein phenotype.

Cartery disease, atherogenic lipoprotein phenotype, hyperapobetalipoproteinsemia, hypertriglycenidaemia, familial dyslipidaemic hypertension, syndrome X, obesity, insulin resistance and hypercholesterolaemia. The CDNA sequence is useful in the diagnosis or prognosis of predisposition to lipid disorders and cancers, and also to ABK68325/
ABK68325/
ABK68325/
AKX
ABK6
AKX
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AKX
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Gaps

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The invention relates to a compound of 8-50 nucleobases in length targeted to a nucleic acid encoding protein phosphatase 1B (PTP1B), where the compound specifically hybridises with and inhibits the expression of PTP1B (e.g. an antisense oligonucleotide). Also included are (1) a compound of 8-50 nucleobases in length which specifically hybridises with an a nucleobase portion of an active site on a nucleic acid encoding PTP1B; (2) inhibiting the expression of PTP1B in cells or tissues comprising contacting the cells or tissues with the compound; treating an animal having or usuperced of having a disease or condition associated with PTP1B comprising administering the compound; (4) decreasing blood sugar levels in an animal comprising administering the compound; (5) preventing or delaying the onset of a disease or condition associated with PTP1B in an animal comprising administering the compound; (6) preventing or delaying the onset of an increase in blood glucose levels
identify a molecule which enhances or decreases the HYPLIP1 or FCHL1 activity. The present sequence represents an oligomucleotide primer specific for the mouse HYPLIP1 locus of the invention. The mouse HYPLIP1 locus is situated on chromosome 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Compound for inhibiting the expression of protein phosphatase 1B (PTP: and for treating diabetes, cancer, or obesity, comprises an antisense oligonucleotide targeted to nucleic acid encoding PTP1B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense; protein phosphatase 1B; PTP1B; se; probe; human; type 2 diabetes; obseity; ovarian cancer; chronic myeloid leukaemia; hyperproliferative disease; antidiabetic; anorectic; cytostatic; blood glucose; gene therapy.
                                                                                                                                 Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human PTP1B antisense oligonucleotide ISIS 142051.
                                                                                              Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                             16 GGATGGACAGGAATGCAGAG 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 3; Page 27; 133pp; English.
                                                                                                                                                                                                                                          20 GGATGGAGGCATCCTGAG 1
                                                                                                                                                                                                                                                                                                                                           ABK85293 standard; DNA; 20 BP.
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31-JUL-2000; 2000US-00629644.
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FREIER S M.
MONIA B P.
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MCKAY R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US2002055479~A1.
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                                                                                                                                                                                                                                                                                                                                                                                 ABK85293;
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(FREI/)
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(BUTL/)
(MCKA/)
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Butler MM, Mckay R;

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This invention relates to an antisense compound encoding Fas, Fas ligand, or Fas associated protein-1 (Fap-1). The inhibition of Fas mediated signalling is thought to be immunosuppressive, antiinflammatory, hepatotropic, cytostatic and vasotropic. Antisense oligonucleotides were designed to target human Fas. Oligonucleotides were synthesised as chimeric oligonucleotides and are useful for treating an animal having an autoimmune or inflammatory disease e.g., hepatitis, cancer, a condition associated with apoptosis, allograft rejection, or ischemia reperfusion injury. Optionally, the above mentioned conditions are prevented by contacting the allograft with the antisense oligonucleotide. The
in an animal comprising administering the compound. The compound is used to inhibit the expression of PTPLB in cells or tissues, to treat or prevent or delay the onset of a disease or condition associated with PTPLB, such as type 2 diabetes, obesity, cancer (especially ovarian cancer, chronic myeloid leukaemia and hyperproliferative diseases in an animal having or ususpected of having the disease or condition, and for decreasing blood sugar levels or preventing or delaying the onset of an increase in blood glucose levels in an animal. The compound is also used kits. The present sequence is an antisense compound of the invention targetting human PTPLB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel antisense compound targeted to nucleic acid encoding Fas, Fas ligand or Fas associated protein-1 is useful for inhibiting expression of Fas, Fas ligand, or Fap-1 in cells or tissues, and for treating hepatitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human, immunosuppressive; antiinflammatory; hepatotropic; cytostatic; vasotropic; hepatitis; cancer; allograft rejection; ds; Fas.
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                                                                                                                                                                                                                                                                  0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
iive 0; Mismatches 4; Indels
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                                                                                                                                                                                                                            Sequence 20 BP; 3 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                          727 GAGGGGCACCCTGCACCGC 746
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18-SEP-2000; 2000US-00665615.
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Best Local Similarity 80.0°
Matches 16; Conservative
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(MARC/) MARCUSSON E
(WYAT/) WYATT J.
(ZHAN/) ZHANG H.
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RESULT 1336 ABQ79631

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel antisense oligonucleotides useful for treating inflammatory diseases or cancers, comprises complementary sequence of inducible human
oligonucleotides are used in diagnostics, therapeutics, prophylaxis and as research reagents and in kits. The oligonucleotides are also useful for research purposes. The present nucleotide sequence is related to
                                                                                                                                                                                                                                                                                                                                                                                     iPFK-2-specific oligonucleotide S-iPFK-2 (A) (sense, position 35-55).
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                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                 Human, phosphofructokinase-2; iPFK-2; antisense therapy; anticancer;
antinflammatory; cytostatic; ss.
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larity 80.0%; Pred. No. 9.3e+02;
Conservative 0; Mismatches 4; Indels
                                                                                                           Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                              Sequence 20 BP; 3 A; 10 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Seguence 20 BP; 4 A; 5 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mitchell RA;
                                                                                                                                                                          1659 CACCCCTCACAGGGCAGCCC 1678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1679 CCAACTACATCTTCCCTGCT 1698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (PICO-) PICOWER INST MEDICAL RES.
                                                                                                                                                                                                       ccrtrrcacardecadcc 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 4; Col 8; 28pp; English.
                                                                                                                                                                                                                                                                                       ABQ79630 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97US-00961578.
                                                                                                           0.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97US-00961578
                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sucala RJ, Chesney J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diseases or cancers, comphosphofructokinase-2.
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                                                                                                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-OCT-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
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                                                                                                                                             16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                 human Fas
                                                                                                                                                                                                                                                                                                                        ABQ79630;
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                                                                                                             Query Match
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Matches
                                                                                                                              Best Loca
Matches
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The invention relates to antisense oligonucleotides of at least 10 bases complementary to inducible human phosphofructokinase-2 (1PFK-2) cDNA. The antisense oligonucleotides can be included in anticancer or antiinflammatory pharmaceutical compositions along with an oligonucleotide carrier. An iPFK-2 antagonist such as an enzymatic inhibitor, anti-iPFK-2 antibody, or iPFK-2 antisense molecule can be administered for treating inflammatory disease or rapidly-growing cancers. The present sequence represents an iPFK-2-specific antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel antisense oligonucleotides useful for treating inflammatory diseases or cancers, comprises complementary sequence of inducible human phosphofructokinase-2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                            phosphofructokinase-2; iPFK-2; antisense therapy; anticancer;
                                                                                                                                                                                    iPFK-2-specific oligo AS-iPFK-2 (A) (antisense, position 35-55).
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Pred. No. 9.3e+02;
0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cheaney J, Mitchell RA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (PICO-) PICOWER INST MEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 CCAACGGCATCTTCGCGGCT 20
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ABQ79631 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                antiinflammatory; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.8%;
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                                                                                                                         (first entry)
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les 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2002-641574/69.
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                                                                                                                         25-NOV-2002
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                                                                                                                                                                                                                                                                                                                                        Synthetic
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                                                              ABQ79631;
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Matches
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Arraying genome clones.

WPI; 2002-144136/19. (GENO-) GENOTEX YG.

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The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in method comprises: (b) clones of the genomic libraries contained in multiwell plates unbered for discrimination are mixed in each of the multiwell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) a mildivell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) amplified product to specify the discrimination Nos. of the multiwell plates containing the clones having said marker sequence; (d) the order of the maximum in the specified discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the miltiwell plates of the specified discrimination Nos. are mixed respectively in each wells of longitudinal and lateral directions; (f) the mixed clones are ordered from the amplified products; (h) the clones in the multiwell plates are specified from the detected result; and (i) the clones are reconstituted as the positions on the chromosome and arrayed. The mixed contains the positions on the chromosome and arrayed. The represent for human chromosome 1972; which are prepared.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;
PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        represent PCR primers for human chromosome 21q22.1, which are specifically claimed for use in the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human chromosome 1p36-35 PCR primer SEQ ID NO:602.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 4 A; 9 C; 2 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                    Claim 4; Page 32; 528pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             397 GAGGTGCAGTCTCCAGTGAG 416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20 GAGGTGAATGCTGCAGTGAG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABL43558 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-MAR-2000; 2000JP-00066716.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-MAR-2001; 2001JP-00068285.
                                                                                           10-MAR-2000; 2000JP-00066716.
                                                      12-MAR-2001; 2001JP-00068285.
                                                                                                                              (RIKA ) RIKAGAKU KENKYUSHO.
(GENO-) GENOTEX YG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RIKA ) RIKAGAKU KENKYUSHO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-APR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match
Best Local Similarity 80.0v
                                                                                                                                                                                                                             Arraying genome clones.
                                                                                                                                                                                         VPI; 2002-144136/19.
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                  20-NOV-2001.
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ABL43558/c
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The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in method comprises: (b) clones of the genomic libraries contained in multiwell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) a signal corresponding to the marker is defected from the resultant amplified product to specify the discrimination Nos. of the multiwell plates containing the clones having said marker sequence; (d) the order of the markers is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the multiwell plates of the specified discrimination Nos. are mixed respectively in each wells of longitudinal discrimination Nos are mixed respectively in each wells of longitudinal creation to the amplified products; (h) the clones in the multiwell plates are specified from the detected from the multiwell plates are specified from the detected; (h) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABL45357 to ABL45322 represent represent POR primers for human chromosome 21q22.1, which are represent represent for plaimer for human chromosome 21q22.1, which are
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel antisense compound for modulating expression of human helicase-moi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human, antisense gene therapy, phosphorothioate backbone, antisense oligonucleotide, helicase-moi gene, inflammation, ss, helicase-moi-associated condition, infection, tumour formation, 2-MOE nucleotide, 2'-methoxyethyl nucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       / Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; hes 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human helicase-moi inhibiting oligonucleotide #60.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 2 A; 7 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                Claim 4; Page 16; 528pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      519 GAAGCTGACCCTCAATAGCC 538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 dalgardacecreaagadec 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-MAY-2001; 2001US-00853768.
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Best Local
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The invention comprises antisense oligonucleotides which are targeted to the coding region of the human helicase-moi gene. The antisense oligonucleotides of the invention are useful for inhibiting the expression of human helicase-moi in cells or tissues, and for treating a helicase-moi-associated condition. The antisense oligonucleotides of the invention may also be used to delay infection, inflammation and tumour formation. The present DNA sequence represents a human helicase-moi gene antisense oligonucleotide of the invention. NOTE: The present DNA sequence has a phosphorothicate backbone, bases 1-5 and 16-20 are 2'-methoxyethyl (2'-MOE) nucleotides and for treating inflammation, specifically hybridizes to a specific region in nucleic acid molecule encoding the human helicase-moi. Sequence 20 BP; 3 A; 3 C; 7 G; 7 T; 0 U; 0 Other; Example 15; Col 45-46; 52pp; English. 

Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels 1380 GGCCGACCTCCTCACCAAGC 1399

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20 GGACTACCTCATAACCAAGC 1

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RESULT 1340

AAI67702 standard, DNA; 20 AA167702

BP.

AA167702;

(first entry) 27-FEB-2002 SHH patched receptor (Ptc) cDNA amplifying forward primer.

Cell culturing, embryonic stem; ES; central nervous system; Ptc; Shh; dopaminergic; cholinergic; serotonergic; antiparkinsonian; nootropic; neuroprotective; anticonvulsant; tranquilizer; vulnerary; neuroleptic; cerebroprotective; cell therapy; gene therapy; CNS; PCR primer; ss.

Homo sapiens

WO200183715-A2.

08-NOV-2001.

01-MAY-2001; 2001WO-US014051

01-MAY-2000; 2000US-0201005P

US GOVERNMENT. LEE S. LUMELSKY N. (USGO ) US GOVERNMENT (LEES/) LEE S. (LUME/) LUMELSKY N. (STUD/) STUDER L. (MCKA/) MCKAY R D G.

Studer L, Mckay RDG; Lumelsky N, iee S,

WPI; 2002-049345/06

Culturing cells such as neuronal cells for use in treating neurological disorders, comprises generating embryoid bodies from undifferentiated embryonic stem cells, selecting precursor cells, expanding and differentiating them.

Example 10; Page 40; 66pp; English

The invention provides a method of culturing cells. The method involves expanding a culture of undifferentiated embryonic stem (ES) cells, generating embryoid bodies (EB), culturing the bodies to select for central nervous system (CMS) precursor cells (PC), culturing PC in an

expansion medium comprising a neurologic factor, and differentiating and culturing the expanded PC to form a culture of differentiated neuronal cells useful for culturing undifferentiated BS cells to form differentiated sells to form differentiated sells to form differentiated neuronal cells which are useful for treating a neurological disorder, especially Parkinson's disease in a patient. A grain derived neurotrophic factor (BDNF), brGF, glial derived growth factor (GDNF) NT-3, and NT-4/5 can be introduced into a brain of a superior neuronal cells. The differentiated neuronal cells are useful for culturing dopaminergic, cholinergic subject. The method is useful for culturing dopaminergic, cholinergic and servicensry neuronal cells. The differentiated neuronal cells are useful for treating neurological disorders such as Runtington's disorders of mood and chording epilepsy, familial dysauconomia as well as injury or trauma to the nervous system such as neurotoxic injury or disorders of mood and soldsorders estimated as stroke and CNS disorders resulting from aging. Assays are useful for the versularity drugs capable of regulating the survival, profileration or genesis of neuronal cells and to screen for angenist or agonist of dopamine or serotonin. Cell cultures comprising 50% 85% neurons which companies 20 + 40% dopaminergic neurons and 1-3% astrocytes are useful for studying the mechanism of neuronal cells and to screen for any sold such as stroke and companies of electrophysichemical properties of differentiated neuronal cells.

CS Sequences AAI6/692-721 represent genes, used for examining the severile companies of developmental progression of ES cells

Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 U; 0 Other;

Gape .; 0 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ative 0; Mismatches 4; Indels Best Local Similarity 80.0 Matches 16; Conservative Query Match

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RESULT 1341 ABL46178/c

ABL46178 standard; DNA; 20 BP. ABL46178; 

26-APR-2002 (first entry)

Human ICAM-1 antisense oligonucleotide ISIS 1939 SEQ ID NO:145.

Nucleic acid accessible hybridisation site; detection; hybridisation; characterisation; identification; nucleic acid structure; diagnosis; PCR primer; probe; ss.

Homo sapiens. Synthetic.

WO200198537-A2.

15-JUN-2001; 2001WO-US019401 27-DEC-2001.

17-JUN-2000; 2000US-0212308P.

(THIR-) THIRD WAVE TECHNOLOGIES INC.

Lyamichev V, Allawi H, Dong F, Neri BP,

WPI; 2002-049698/06.

Identifying oligonucleotides hybridizing to nucleic acids containing secondary structure, useful in clinical diagnosis, comprises identifying primers that interact with the target to form an extension product under

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(INRM ) INSERM INST NAT SANTE & RECH MEDICALE.
(NAGE-) CENT NAT GENOTYPAGE.
                                                                                                     23-MAY-2001; 2001WO-IB001153.
                                                                    09-APR-2002
                                                       RESULT 1342
ABK24601/c
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(first entry)

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The present invention describes a method for identifying oligonucleotides with desired hybridisation properties to nucleic acid targets containing accondany structure. The method comprises amplifying a target nucleic acid having at least one accessible and one inaccessible site. Primers that form an extension product are identified as the oligonucleotides which can interact with the folded target nucleic acid. Oligonucleotides from the present invention can be used in novel detection methods for clinical diagnostic purposes, including the detection and identification of pathogenic organisms (e.g. HrV). The method allows the ability to rapidly analyse nucleic acid structures. ABL46034 to ABL46367 represent sequences used in the exemplification of the present invention
                                                                                                                                   Example 17; Page 382; 409pp; English.
amplification conditions
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Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;

Gaps ö 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; 4; Indels 0; Mismatches 226 GAGAGTGGTGGTGGTGGCGG 245 16; Conservative Best Local Similarity Matches 16; Conserv

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20 GAGAGGGAAGTGGTGGGGG 1

ABK24601 standard; DNA; 20 BP ABK24601;

Human, EIF2AK3; antidiabetic, osteopathic, antiarthritic, hepatotropic, nephrotropic; nootropic, diabetes; Wolcott-Rallison syndrome; WRS; osteoporosis; arthritis, hepatic dysfunction; nephropathy; renal dysfunction; mental retardation; primer; ss; eukaryotic initiation factor 2 alpha kinase 3. EIF2AK3 gene sequencing primer #17.

Homo sapiens.

WO200190371-A1.

29-NOV-2001.

23-MAY-2000; 2000EP-00401436. 02-OCT-2000; 2000EP-00402707.

Nicolino M; Julier C, Delepine M,

WPI; 2002-122021/16.

New mutated eukaryotic initiation factor 2 alpha kinase 3 genes and polypeptides in patients with Wolcott-Rallison syndrome, useful for preventing or treating e.g. diabetes, osteoporosis, arthritis or mental retardation.

Example 4; Page 31; 93pp; English.

The invention relates to an isolated variant of a mammal genomic sequence of the gene coding for the translation initiation factor 2 alpha kinase 3 (EIPIRAKA). The EIPIRAKA nucleic acid variant is useful for the production of a recombinant or synthetic polypeptide, and for screening compounds capable of modulating EIPIRAS. The nucleic acid is also useful for

The invention relates to a composition comprising one or more nucleic acid molecules and at least one oligonuclectide, where at least a portion of the oligonuclectide is capable of hybridising with at least a portion of the nucleic acid molecule and where the oligonuclectide comprises a modified nuclectide at or near the 3'-terminal nucleotide. The various analogue oligonuclectides are useful for quantification or detection of one or more target nucleic acid molecules in a sample during nucleic acid

Composition comprising nucleic acid molecules and a oligonucleotide capable of hybridizing with a portion of nucleic acid, and comprises modified nucleotide at or near the 3'-terminal nucleotide.

WPI; 2002-627370/67.

Example 29; Page 158; 307pp; English.

screening or diagnosing the diseases cited below. The nucleic acid of may be used as sense or anti-sense oligonucleotide. The nucleic acid may also be used as primer or a probe, for detecting and/or amplifying a nucleic acid sequence. The compound is useful as a medicament, particularly for preventing and/or treating diabetes and/or pathology related to WRS, e.g. type I diabetes, type 2 diabetes, the others forms of diabetes, the compound is useful as a medicament, particularly for creal dysfunction, or mental retardation. The cell the mammal or the creating is useful for studying the expression or the activity of the BIP2AK3 protein, and the direct or indirect interactions between the circularly continued in the activity of the BIP2AK3 protein and chemical or biochemical compounds, which may be interacting directly or indirectly biochemical compounds capable of interacting directly or indirectly with the BIP2AK3 protein, and/or interacting the activity of the BIP2AK3 protein, and/or capable of modulating the expression or the activity of the BIP2AK3 protein, and/or capable of modulating the expression or the activity of the BIP2AK3 protein, and companied or protein. AbRX45424 represent human BIP2AK3 coding sequences and companied the invention ö Nucleic acid detection and discrimination related oligo SEQ ID No 104. Gaps Hybridising, quantification; detection; synthesis; amplification; oligonucleotide; ds. ; 0 Darfler M; Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels Nazarenko I, Rashtchian A, Solus J, Pires RM, Gebeyehu G, Astatke M; Sequence 20 BP; 6 A; 3 C; 5 G; 6 T; 0 U; 0 Other; 532 AATAGCCCCATCTTTGACAA 551 20 AATAGGCCCGTCTTTAACTA 1 BP. 27-DEC-2001; 2001WO-US050460. 27-DEC-2000; 2000US-00748146. 23-OCT-2001; 2001US-0330468P. ABT06761 standard; DNA; 20 (first entry) (INVI-) INVITROGEN CORP. WO200257479-A2. Unidentified. 07-NOV-2002 25-JUL-2002. ABT06761; RESULT 1343 ABT06761, ઠે 셤

schultz621-3.rng

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synthesis or amplification. The analogues are also useful for determining
                                                                                                                 amplifying one or more nucleic acid molecules, by mixing one or more nucleic acid templates or targets with the analogue oligonucleotides, and incubating the mixture to synthesise or amplify one or more nucleic acid molecules complementary to all or a portion of the templates or targets. This polynucleotide sequence represents a nucleic acid detection and discrimination related oligonucleotide of the invention
                          the presence or absence of one or more particular nucleotides at a specific position or positions in a target nucleic acid molecule. The analogue oligonucleotides can also be useful for synthesising or
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Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;

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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.38+02; ive 0; Mismatches 4; Indels
                                                                                     948 CTACTGCCACGGCAGAAGG 967
                                                                                                                              20 CTACAGCCACCATGAGAAGG 1
  Query Match
Best Local Similarity 80.0
Matches 16; Conservative
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RESULT 1344

Nucleic acid detection and discrimination related oligo SEQ ID No

Hybridising, quantification; detection; synthesis; amplification; oligonuclectide; ds.

27-DEC-2001; 2001WO-US050460.

27-DEC-2000; 2000US-00748146. 23-OCT-2001; 2001US-0330468P.

Darfler M; Solus J, Pires RM, Rashtchian A,

Composition comprising nucleic acid molecules and a oligonucleotide capable of hybridizing with a portion of nucleic acid, and comprises modified nucleotide at or near the 3'-terminal nucleotide.

Example 29; Fig 36; 307pp; English

cid molecules and at least composition of the objection of the nuclectide is capable of hybridising with at least a portion of the nuclectide at or near the 3-terminal nuclectide comprises a malogue objection of the objection of the objection of an along the objection of the objection of an along the objection of the objection of an analogue of the objection of The invention relates to a composition comprising one or more nucleic ABTO6751/c

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ABTO6751/c

ABTO6751/c

ABTO6751;

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AC ABTO6751;

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C1-NOV-2002 (first entry)

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Wybridising; quantification; quantification composition comprising muclei quantification quantification; quantification quantification quantification quantification quantification quantification; quantification quantification quantification; quantification quantifi

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molecules complementary to all or a portion of the templates or targets. This polynucleotide sequence represents a nucleic acid detection and discrimination related oligonucleotide of the invention
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                          Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other
                                      Score 13.6; DB 1;
Pred. No. 9.3e+02;
                                  0.8%; Scor.
80.0%; Pred. No. >...
                                                                 948 CTACTGCCACCGGCAGAAGG 967
                                                                             CTACAGCCACCATGAGAAGG 1
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                                                                                                              ABT06760 standard; DNA; 20
                                                    16; Conservative
                                      Query Match
Best Local Similarity
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                                                                                                              8XCCCCCCCCCCCCCCCCX8XEEEEX8XEEEX8X8X6X6X6X6X6X6X6X6X6X6
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Nucleic acid detection and discrimination related oligo SEQ ID No 103.

(first entry)

07-NOV-2002

Hybridising, quantification; detection; synthesis; amplification; oligonucleotide; ds.

Composition comprising nucleic acid molecules and a oligonucleotide capable of hybridizing with a portion of nucleic acid, and comprises modified nucleotide at or near the 3'-terminal nucleotide. WPI; 2002-627370/67.

Darfler M;

Pires RM,

Solus J,

Nazarenko I, Rashtchian A,

Gebeyehu G,

(INVI-) INVITROGEN CORP

27-DEC-2001; 2001WO-US050460. 27-DEC-2000; 2000US-00748146. 23-OCT-2001; 2001US-0330468P.

WO200257479-A2. Unidentified

94.

25-JUL-2002.

Example 29; Page 158; 307pp; English.

The invention relates to a composition comprising one or more nucleic acid molecules and at least one oligonucleotide, where at least a portion of the oligonucleotide is capable of hybridising with at least a portion of the nucleic acid molecule and where the oligonucleotide comprises a modified nucleotide at or near the 3'-terminal nucleotide. The various analogue oligonucleotides are useful for quantification or detection of one or more target nucleic acid molecules in a sample during nucleic acid consorted as a sample during nucleic acid consorted acid molecules are also useful for determining the presence or absence of one or more particular nucleotides at a specific position or positions in a target nucleic acid molecule. The analogue oligonucleotides can also be useful for synthesising or mucleic acid templates or targets with the analogue oligonucleotides, and incubating the mixture to synthesise or amplify one or more nucleic acid molecules complementary to all or a portion of the templates or targets. This polynucleotide sequence represents a nucleic acid detection and discrimination related oligonucleotide of the invention

Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;

0.8%; Score 13.6; DB 1; Length 20;

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Constructing strains for identifying gene products as effective targets for therapeutic intervention, by inactivating in the strain one allele of a gene and placing other allele of the gene under conditional expression.
                                                                                                         Fungus; yeast; tetracyclin; promoter; GRACE strain; biosynthesis;
signal transduction; DNA replication; cell division; growth;
proliferation; Candida albicans; fungicide; antifungal; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 36; SEQ ID NO 5724; 167pp + Sequence Listing; English.
                                                                         Candida albicans GRACE strain PCR primer SEQ ID NO 5724.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Boone C,
                                                                                                                                                                                                                                                                                                                                 29-DEC-2000; 2000US-0259128P.
20-FEB-2001; 2001US-00792024.
22-AUG-2001; 2001US-0314050P.
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                                     (first entry)
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Best Local Similarity
Matches 16; Conserva
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                                                                                                                                                                                      Candida albicans.
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                                     30-JAN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention comprises antisense oligonucleotides designed to inhibit expression of Syntaxin 4 interacting protein. The antisense oligonucleotides of the invention are useful for inhibiting the expression of Syntaxin 4 interacting protein in cells or tissues. The antisense oligonucleotides are also useful for treating an animal having a disease or condition associated with Syntaxin 4 interacting protein (e.g. diabetes, obesity or a skeletal muscle disorder). The antisense oligonucleotides can also be used to prevent or delay infection, frommanion and tumour formation. The present DNA sequence represents a human Syntaxin 4 interacting protein antisense oligonucleotide. NoTE: The present gequence contains a phosphorothioate backbone and 2'-0-
                                                                                                                                                                                                                                                                                                                                 Human; antisense gene therapy; Syntaxin 4 interacting protein; ss; antisense oligonucleotide; diabetes; obesity; skeletal muscle disorder; inflammation; tumour formation; phosphorothioate backbone; 2.-0-methoxyethyl wing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel antisense compound that hybridizes and inhibits nucleic acid molecule encoding Syntaxin 4 interacting protein, useful for treating diabetes, obesity and skeletal muscle disorder.
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                   4; Indels
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80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4
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                                                     948 CTACTGCCACCGGCAGAAGG 967
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 3; Page 84; 154pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Wyatt JR;
                                                                                       20 cracaccaccargadade 1
                                                                                                                                                                                    ABQ62337 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-SEP-2001; 2001WO-US029251.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-SEP-2000; 2000US-00668313.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABZ31505 standard; DNA; 20
                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 80.0°
Matches 16; Conservative
                   16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Monia BP, Freier SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-404952/43.
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                            16-AUG-2002
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                                                                                                                                                                                                                        ABQ62337;
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                                                                                                                                                RESULT 1346
                     Matches
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ID ABZ3
XX
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Ohlsen KL;

Bussey H,

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The invention relates to constructing (M1) a strain of diploid fungal cells in which both alleles of a gene are modified, comprising modifying constalled by insertion or replacement by a cassette having an expressible selectable marker and modifying other allele by recombination, of a promoter replacement fragment with a heterologous promoter, so that expression of the second allele by the promoter for constructing a strain of diploid fungal cells in which both alleles of a gene are modified. The diploid fungal cells in which both alleles of a gene are modified. The diploid fungal contributes to the virulence and/or pathogenicity of a fungus, a gene that is essential to the survival or growth of a fungus, a gene that contributes to the virulence and/or pathogenicity of a fungus of and for identifying a therapeutic agent for treatment of a mammalian agent, an antifungal agent that inhibits the growth of a diploid fungus continuous and for identifying a compound which modulates the activity of a gene product, preferably entranscriptional, agent by compound catabolism, biosynthetic, transporter, transcriptional, carbonism, biosynthetic, transporter, transcriptional, asimal transduction, DNA replication and cell division activity. The method is useful for identifying a compound having the cranslational, signal transduction, DNA replication and cell division activity. The method is useful for identifying a compound having the treating infection by C. albicans. The present esquence is that of the present is patent is not represented in the present esquence is that of the present is patent is not represented in the present esquence is that for the present is patent in the method of the invention. Note: The sequence as the formation activity, the present esquence is that formation are presented in the present of the present perfected for the present of the 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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This invention describes a novel murine calpain protease 12 (capn12). The calpain protease of the invention, related proteins and nucleic acid that encodes it, are useful for treatment (including gene therapy) of diseases associated with insufficient expression of the calpain protease. The special is also used to screen for calpain protein effectors and to raise polynucleotide encoding capn12 is useful, e.g. as primers and probes, for diagnosis of diseases, or predisposition to them, and for recombinant production of capn12. This sequence represents the murine calpain 12, capn12 exon 19 splice donor site described in the disclosure of the
                                                                                                       Calpain protease; murine; gene therapy; screening; diagnosis; capn12; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New calpain protein 12 with cysteine protease activity, useful for treating specific deficiency disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            / Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; Nes 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 3 A; 6 C; 4 G; 7 T; 0 U; 0 Other;
                                                                        Murine capn12 exon 19 aplice donor site.
                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Fig 2c; 36pp; German.
                                                                                                                                                                                                                                                                                                                                                   30-JUN-2000; 2000DE-01031932.
                                                                                                                                                                                                                                                                                                                                                                                30-JUN-2000; 2000DE-01031932.
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/*tag= b
/number= 19
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/*tag= a
/number= 19
                                           (first entry)
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                                           11-JUN-2002
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              ABA99824;
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HKNO1; ss; chromosome 18p; bipolar affective disorder; BAD; PCR; primer; severe bipolar affective (mood) disorder; BP-1; schizophrenia; Hong Kong new gene 1; antimanic; antidepressant; neuroleptic.
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0
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                                                                                                                                                                                                                                                                                                                       4; Indels
                                                                                                                                                                                                                                                                                            Sequence 20 BP; 5 A; 7 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                       0; Mismatches
                                                                                                                                                                                                                                                                                                                                      621 TAAGCTGGACAAACTGGGCG 640
                                                                                                                                                                                                                                                                                                                                                                                                                              Human HKNG1 exon 9 PCR primer #1.
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                                                                                                                                                                                                                                                                                                                                                                                     ABK43252 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                        16; Conservative
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1684 TACATCTTCCCTGCTTACTC 1703

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Best Loca Matches

recarcircereagracic 20

ABN97923 standard; DNA; 20

RESULT 1349

ABN97

ABN97923;

GAPDH amplification control forward primer. NEDD-1; cytostatic; human; ss; PCR; primer.

Homo sapiens

30-JUL-2002 (first entry)

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This invention relates to an isolated polynucleotide encoding human NEDD-1, which is cytostatic in its action. The polynucleotide is useful for diagnosing diseases caused by mutation in human NEDD-1, and for diagnosing or monitoring diseases caused by altered expression of human NEDD-1. Fragments of NEDD-1 are useful as hybridisation probes and primers, and to direct expression or synthesis of epitopic or immunogenic protein fragments. The proteins are useful as therapeutic supplement in patients with specific deficiency in human NEDD-1 production, and for treating subjects preferably with defects in NEDD-1. The present sequence is a PCR primer related to human NEDD-1.

Polynucleotide and polypeptide of human NEDD-1 useful for diagnosing, treating or preventing a disorder associated with decreased or increased expression or activity of the polypeptide.

30-JAN-2001; 2001WO-US000662. 30-JAN-2001; 2001WO-US000663. 30-JAN-2001; 2001WO-US000666. 30-JAN-2001; 2001WO-US000666. 30-JAN-2001; 2001WO-US000666. 30-JAN-2001; 2001WO-US000667. 30-JAN-2001; 2001WO-US000669. 30-JAN-2001; 2001WO-US000669. 30-JAN-2001; 2001WO-US000669.

(AEOM-) AEOMICA INT.

WPI; 2002-426011/45 Gu Y, Corrigan A;

26-SEP-2001; 2001WO-US030287

WO200226818-A2.

04-APR-2002

Example 2; Page 94; 190pp; English

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The invention relates to an isolated nucleic acid molecule comprising a nucleotide sequence that encodes a Hong Kong New Gene (HKNG) 1 gene product. The human gene for HKNG1 is located on chromosome 10g in an area associated with bipolar affective disorder, Bab. Also included are an expression vector comprising the nucleic acid, a host cell expressing the nucleic acid, an anti-HKNG1 antibody, a method of identifying modulators of HKNG1, and identifying an individual (at risk of) having HKNG1 mediated disorder comprising detecting the presence or absence of a polymorphism that correlates with an HKNG1 allele associated with the disorder, where the presence of the polymorphism indicates that the individual (is at risk of) having HKNG1 mediated disorder. A (small
                                                                                                                                                                                                                 New nucleic acid molecule Hong Kong New Gene 1 (HKNG1), useful for screening for molecules which modulate HKNG1 expression for the treatment of bipolar disorder and schizophrenia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            molecule) compound which modulates (inhibits or potentiates) expression of a HKNG1 gene or gene product in a human individual is useful for the treatment of a HKNG1-mediated disorder such as bipolar affective disorder (BAD), severe bipolar affective (mood) disorder (BP-I) and schizophrenia. The present sequence is PCR primer which amplifies a HKNG1 exonic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Caspase 7; antisense modulation; antiinflammatory; cytostatic; antisense therapy; caspase 7 inhibitor; inflammatory condition; hyperproliferative disorder; cancer; bone metabolism; infection; cholesterol disorder; inflammation; tumour; phosphorothioate; ss.
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0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Match
Local Similarity 80.0%; Pred. No. 9.3e+02;
es 16; Conservative 0; Mismatches 4; Indels
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/*tag b
/*mod base= OTHER
/note= "2'-methoxyethyl (2'-MOE) wing"
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/*tag= a
/mod_base= OTHER
/note= "Phosphorothioate linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 5 A; 7 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                       Disclosure; Page 74; 367pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      156 GTCAATGACACTCCGAGGTG 175
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                                                                                                                                               Novak T;
                                02-AUG-2000; 2000US-00631275.
28-NOV-2000; 2000US-00722544.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABN80949 standard; DNA; 20 BP
 02-AUG-2001; 2001WO-US024417.
                                                                                     (MILL-) MILLENNIUM PHARM INC. (REGC ) UNIV CALIFORNIA.
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                                                                                                                                           Chen H, Freimer NB,
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modified_base
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The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding caspase 7, which specifically hybridises with and inhibite the expression of caspase 7.

(I) has antinifiammatory and cytostatic activities, and can be used in antisense therapy and as an inhibitor of caspase 7 expression. (I) is useful for inhibiting the expression of caspase 7 in human cells or tissues, and for treating a human having a disease or condition.

(Byerprolificative disorder (cancer), or bone metabolism or cholesterol hyperprolificative disorder (cancer), or bone metabolism or cholesterol cascarch reagent and kits. (I) is useful prophylactically to prevent or delay infection, inflammation or tumour formation. The present sequence represent a mouse caspase 7 inhibiting chimeric phosphorothicate colligonucleotide having 2-MOE wings and a decoxy gap, which is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                     Novel antisense compounds targeted to nucleic acids encoding caspase 7, for modulating gene expression and treating diseases associated with expression of caspase 7 in humans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Caspase 7; antisense modulation; antiinflammatory; cytostatic; antisense therapy; caspase 7 inhibitor; inflammatory condition; hyperproliferative disorder; cancer; bone metabolism; infection; cholesterol disorder; inflammation; tumour; phosphorothioate; sa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4; Indels 0;
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                /*tag= c
/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) wing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 80.0%;
Matches 16; Conservative
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                                                                                                                                                                                                                     (ISIS-) ISIS PHARM INC.
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/*tag=
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                                                                                                                                                                                                                                                     Watt AT;
                                                                                WO200222640-A1
modified base
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modified_base
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                                                                                                                21-MAR-2002
                                                                                                                                                                                                                                                    Zhang H,
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The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding caspase 7, which specifically hybridises with and inhibits the expression of caspase 7.

(I) has antiinflammatory and cytostatic activities, and can be used in antisense therapy and as an inhibitor of caspase 7 expression. (I) is useful for inhibiting the expression of caspase 7 expression. (I) is useful for inhibiting the expression of caspase 7 in human cells or useful for inhibiting a disease or condition associated with caspase 7 including inflammatory condition.

(byperproliferative disorder (cancer), or bone metabolism or cholesterol disorder. (I) is useful for diagnostics, therapeutics, prophylaxis and as research reagent and kits. (I) is useful prophylactically to prevent or delay infection, inflammation or tumour formation. The present sequence oligonucleotide having 2. MOE wings and a decoxy gap, which is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human, Von Willebrand factor-cleaving protease; vWF-cp; therapy; enzyme; transgenic animal; immunisation; thromboembolic disease; preeclampsia; thrombotic thrombocytic purpura; TTP; Henoch-Schonlein purpura; thrombosis; neonatal thrombocytopeania; haemolytic-uraemic syndrome; transgenic; anticoagulant; RT-PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                             Novel antisense compounds targeted to nucleic acids encoding caspase 7, for modulating gene expression and treating diseases associated with expression of caspase 7 in humans.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                              *tag= b
mod_base= OTHER
'note= "2'-methoxyethyl (2'-MOE) wing'
                                                                                                                                          'note = "2'-methoxyethyl (2'-MOE) wing"
'note= "Phosphorothioate linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 8 A; 3 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1204 CTCTTTCCGGGCTCCACGGT 1223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 3; Page 88; 138pp; English.
                                                                                                                           /mod_base= OTHER
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                                                                                                                                                                                                                                                 10-SEP-2001; 2001WO-US028232.
                                                                                                                                                                                                                                                                                    11-SEP-2000; 2000US-00659860.
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                                                                                                        /*tag=
                                                                                                                                                                                                                                                                                                                      (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-404806/43.
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                          Zhang H, Watt AT;
                                                                                                                                                                             WO200222640-A1
               modified_base
                                                                                   modified_base
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Matches
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The invention relates to an isolated or substantially pure Von Willebrand factor-cleaving protease (vWF-cp) polypeptide. vWF-cp is useful for purifying vWF which involves providing vWF-cp as a ligand, contacting a solution comprising vWF with the polypeptide ligand under conditions where vWF is bound to the ligand and recovering from the ligand purified vWF- vWF-cp is useful for producing anti-vWF cp polypeptide antibodies vWF vWF-cp is useful for producing anti-vWF cp polypeptide antibodies which involves immunising an animal with vWF-cp and isolating the anti-vWF cp polypeptide antibodies from the animal. vWF-cp is useful for producing a preparation of prophylaxis and therapy of thrombosis and thrombombombolic disease such as thrombocic thrombocytopaenia or preducing a preparation of prophylaxis and therapy of thrombosic and thrombocytopaenia or haemolytic-uraemic syndrome. vWF-cp can also be used for processing plasmatic or recombinantly produced vWF. The invention is useful for construction expression systems and generating transgenic animals which express the polypeptide in vivo. The present sequence is human vWF-cp gene cloning RT-PCR primer
                                                                                                                                                                                                                                                                                                                                                                  Novel isolated or substantially purified Von Willebrand factor-cleaving protease, useful for producing preparation for therapy of thrombosis and thromboembolic disease such as thrombotic thrombocytic purpura.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human, PCR primer; identification; tumour senescence; cytotoxic; ss;
abnormal cell proliferation; neoplastic cell growth; growth-inhibitory.
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                                                                                                                                                                                                                                    ________S Gerritsen HE, Furlan M, Turecek P, Schwarz Scheiflinger F, Antoine G, Kerschbaumer R, Tagliavacca Zimmermann K, Voelkel D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 3 A; 6 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MAC2-BP gene sense PCR primer SEQ ID NO:48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 3; Page 34; 93pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            253 CCTGGAGGCCCCCACACG 272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 CCTGGAGGGTCCCCAGATG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABQ74705 standard; DNA; 20 BP
                                                                                                                  20-NOV-2001; 2001WO-EP013391
                                                                                                                                                       22-NOV-2000; 2000US-00721254
12-APR-2001; 2001US-00833328
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                                                                                                                                                                                                                                                                                                                                 WPI; 2002-479950/51.
                                                                                                                                                                                                               (BAXT ) BAXTER AG.
                                       WO200242441-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200261134-A2
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                                                                            30-MAY-2002.
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ABQ74705
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The present invention describes a method for identifying a compound that induces senescence in a mammalian cell comprising culturing the cell in the presence and absence of the compound, assaying expression of at least con collular gene (Gla) from 56 or agene (G2) from 64 genes, with corresponding accession numbers given in the specification, and identifying compounds that induce senescence when expression of (Gla) or expression of (G2) is lower, in the presence of the compound Also described: (1) a compound that induces senescence in a mammalian cell; (2) assessing efficacy of a treatment of a disease or condition relating to abnormal cell proliferation or neoplastic cell growth; or (4) identifying a compound that inhibits senescence—associated induction of cellular gene expression or neoplastic cell growth; or (4) identifying a compound that inhibits is useful for treating or for assessing efficacy of treatment of a lisease or condition relating to abnormal cell proliferation or senescence—associated inducing of the invention has a growth—inhibitory effect without producing systemic side effects found with other growth—inhibitory compounds. ABQ74611 to ABQ74734 represent PCR primers which are used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; mouse; HYPLIP1; FCHL1; familial combined hyperlipidaemia; cancer;
                                                                                                                                                                                                                  Identifying a compound that induces senescence in a mammalian p53 deficient or tumor cell comprises assaying expression of cellular genes in the presence of the compound with expression of the genes in the absence of the compound.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 5 A; 3 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mouse HYPLIP1 locus PCR primer #302
                                                                                                                                                                                                                                                                                                                    Example 4; Page 52; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  48 ACCAGCAGTGTGACTGCTGA 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 Accargadieregarectea 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         lipid disorder; PCR; primer; ss.
21-DEC-2001; 2001WO-US050574.
                                      21-DEC-2000; 2000US-0257907P.
17-DEC-2001; 2001US-00257907.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      08-SEP-2000; 2000US-0231322P.
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                                                                                               (UNII ) UNIV ILLINOIS FOUND.
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                                                                                                                                      Roninson IB, Chang B;
                                                                                                                                                                              WPI; 2002-619266/66.
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The invention relates to an isolated polynucleotide comprising a sequence variation of a mouse HYPLIP1 CDNA or a human FCHL1 (familial combined hyperlipidaemia) gene. The FCHL1 polynucleotide, the FCHL1 polypeptide or antibody immunoreactive to the FCHL1 polypeptide are useful for treating or preventing cancer associated with expression of FCHL1, as well as for treating lipid disorder. The mouse HYPLIP1 cDNA or human FCHL1 gene are also useful for diagnosing or prognosing a predisposition to lipid disorder and cancer. ABK70902-ABK71303 represent mouse HYPLIP1, human FCHL1 coding sequences and PCR primers of the invention
                                                                                      New mouse HYPLIP1 and human FCHL1 (familial combined hyperlipidemia) genes and their sequence variations, useful for diagnosing, treating or preventing lipid disorders and cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Modified antisense oligonucleotide; antisense; HIV; cancer; infection; cytostatic; virucide; anti-HIV; hepatotropic; antiinflammatory; phosphorothioate backbone; integrin; cell-cell adhesion receptor; ss.
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                Lusis AJ;
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/note= "optionally phosphorothioate backbone"
11. .13
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                                                                                                                                                                                                                                                                                                                                                                     Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                De Jong P,
                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
             Bodnar JS, Castellani LW, Chatterjee A,
Ohmen J, Ross D, Tafuri S, Wu C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                   Claim 11; Page 76; 102pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ICAM antisense oligonucleotide #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                    16 GGATGGACAGGAATGCAGAG 35
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/mod base= OTHER
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/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAL46755 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-AUG-2002 (first entry)
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*tag=
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                                                          WPI; 2002-329882/36.
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Gaps .; 0

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The invention relates to a novel isolated nucleic acid molecule comprising a sequence that encodes a thioesterase or thioesterase domain,
                                                                                                                      The present invention relates to novel antisense oligonucleotides which are targetted to nucleic acids encoding human raf proteins and capable cinhibiting raf expression. The invention also relates to methods of inhibiting hyperproliferation of cells which involves contacting the hyperproliferation of cells which involves contacting the hyperproliferating cells with a therapeutically effective amount of an oligonucleotide of the invention. The method is useful for treating cancer, angiogenesis or neovascularisation, especially ocular angiogenesis or neovascularisation. The present DNA sequence is an antisense oligonucleotide targetted to human c-raf kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Isolated nucleic acid molecule from a bacterial daptomycin biosynthetic gene cluster encoding a thioesterase or thioesterase domain, useful for generating novel linear and cyclic peptides, and products in a cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Daptomycin biosynthetic gene cluster; thioesterase; antibacterial; fundicide; virucide; antiparasitic; immunomodulator; antilipemic; cytostatic; gene therapy; antimitotic; immunomodulatory; siderophore; anti-cholesterolemic; agrochemical; linker; PCR; primer; ss.
                                             Treating cancer, angiogenesis or neovascularization by administering antisense oligonucleotides targeted to human raf sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S. roseosporus daptomycin biosynthetic gene cluster PCR primer P92.
                                                                                                                                                                                                                                                                                                               0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
vative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                 Sequence 20 BP; 5 A; 4 C; 8 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2; Page 91; 227pp; English.
                                                                                                                                                                                                                                                                                                                                                                             1186 ATGGCCACAGGCCGTCCCCT 1205
                                                                                           Disclosure; Col 12; 41pp; English
                                                                                                                                                                                                                                                                                                                                                                                                           20 AreserceAssecricacer 1
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28-FEB-2001; 2001US-0272207P.
06-AUG-2001; 2001US-0310385P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABQ78911 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-OCT-2002 (first entry)
                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 80.0
Matches 16; Conservative
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                  WPI; 2002-597918/64.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (BRIA/) BRIAN P.
(BALT/) BALTZ R H.
(SILV/) SILVA C J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200259322-A2.
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ABQ78911
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                                                                                                                                                                                                                             The present invention relates to oligonucleotides having at least one non-terminal pyrimidine nucleoside modified and additionally having the 5'-and/or 3'-terminal modified. These can be used in the treatment of viral infections, such as HIV, HSV-1, HSV-2, influenza virus, VSV, hepatitis B and papilloma viruses, cancer and diseases involving integrins and cell-adhesion receptors. The present sequence is an antisense oligonucleotide of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; raf; hyperproliferation; neovascularisation; ocular angiogenesis;
therapy; cancer; cytostatic; anti-angiogenic; vascular; ophthalmological;
antisense; phosphorothioate backbone; c-raf kinase; ss.
                                                                            Winkler I;
                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                       New nuclease-resistant oligonucleotides having modified non-terminal pyrimidine nucleoside(s), useful e.g. for treating cancer or viral diseases or as diagnostic reagents.
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0
                                                                                                                                                                                                                                                                                                                                                                                          0.8%; Score 13.6; DB 1; Length 20;
llarity 80.0%; Pred. No. 9.3e+02;
Conservative 0; Mismatches 4; Indels
                                                                              Helaberg M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human c-raf kinase antisense oligonucleotide ISIS #5149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note= "Phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                            Kretschmar G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                      Disclosure, Page 12; 19pp, German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
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95WO-US007111.
96US-00756806.
97US-00888982.
98WO-US013961.
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93DE-04338704
94EP-00117513
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                                                                              Mag
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*tag= a
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                                                                              Peymann A, Uhlmann E,
                                                                                                          WPI; 2002-353922/39.
                                              (FARH ) HOECHST AG.
                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
16; Conserv
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modified_base
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Synthetic.
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26-NOV-1996;
07-JUL-1997;
06-JUL-1998;
28-AUG-1998;
12-NOV-1993;
07-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-FEB-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAD44724;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Monia BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
                                                                                                                                                                                                                                                                                                                                                                                                                                                          226
                                                                                                                                                                                                                                                                                                                                                                                            Query Match
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Matches
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 ##X#X#X#X#X#X#X
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Gaps

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derived from a bacterial daptomycin biosynthetic gene cluster. The proceins of the invention have antibacterial, fungicide, virucide, antiparasitic, immunomodulator, antilipemic, and cytostatic activity. The polynucleotides may have a use in gene therapy. The compositions and methods of the present invention are useful for generating novel linear and daptomycin non-ribosomal peptide synthetase (NRPS) to be used as new compounds or in producing new compounds, such as antibiotics, antifungals, antivirals, antiparasitics, antimitotics, antitumour agents, immunomodulatory agents, anti-cholesterolemic agents, addrophores, agrochemicals and cytostatics. The sequence represents a PCR primer used in the invention to amplify the S. roseosporus daptomycin biosynthetic gene cluster from a BAC library
                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NOVX; cytostatic; cardiant; antiarteriosclerotic; antiasthmatic; cancer; hypotensive; cardiomyopathy; bronchial asthma; gene therapy; vaccine; human; PCR; primer; ss.
                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human NOV-associated forward primer from primer-probe set Ag3338.
                                                                                                                                                                                                                                                            ..
0
                                                                                                                                                                                                                           0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                   Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                     374 AGGCTTCAGCCACGTCCTCG 393
                                                                                                                                                                                                                                                                                                     1 AGTCCTCAGCCATCTCCTCG 20
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2001US-02742BLP
2001US-0274842P
2001US-027523FP
2001US-0275578P
2001US-0275578P
2001US-0275578P
2001US-027578P
2001US-0275778P
2001US-0275778P
2001US-0275778P
2001US-0275778P
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2001US-0277833P.
2001US-0278152P.
2001US-0278894P.
2001US-0278899P.
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2001US-0280233P.
2001US-0280802P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-MAR-2002; 2002WO-US006908
                                                                                                                                                                                                                                                                                                                                                                                    ABX97255 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                          20-MAY-2003 (first entry)
                                                                                                                                                                                                                                            Local Similarity 80.0
les 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200272757-A2.
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09-MAR-2001;
12-MAR-2001;
13-MAR-2001;
13-MAR-2001;
13-MAR-2001;
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-MAR-2001;
-MAR-2001;
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20-MAR-2001;
20-MAR-2001;
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-MAR-2001;
-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-MAR-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                               ABX97255;
                                                                                                                                                                                                                                Query Match
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Matches
                                                                                                                                                                                                                                                                                                                                                        RESULT 1359
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This invention describes novel human NOVX polypeptides which have cytostatic, cardiant, antiarteriosclerotic, antiasthmatic and hypotensive activity. Pharmaceutical compositions comprising the NOVX proteins or nucleic acid molecules or NOVX antibodies are useful for preventing or treating a disorder associated with aberrant NOVX expression or activity e.g. cancer, hypotension, atherosclerosis, cardiomypathy or bronchial asthma. The products of the invention can be used for gene therapy or in a vaccine. ABX13460-ABX13462 and ABX97186-ABX97593 represent PCR primers and probes used in the amplification and isolation of the NOVX polymeted polymucleotides represented in ABX97088-ABX97185 which encode the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Padigaru M, Spytek KA, Shenoy SG, Taupier RJ, Pena CEA, Li L;
Zerhusen BD, Gusev V, Ji W, Gorman L, Miller CE, Kekuda R;
Patturajan M, Gangolli E, Vernet CAM, Guo X, Tchernev V;
Fernandes ER, Casman SJ, Malyankar UM, Gerlach V, Liu Y, Anderson D;
Spaderna SK, Catterton E, Burgess C, Leite M, Zhong H, Alsobrook JP;
Lepley DM, Rieger DK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NOVX polypeptides and polynucleotides, useful for preventing or treating a disorder associated with aberrant NOVX expression or activity e.g., cancer, hypertension, atherosclerosis, cardiomyopathy or bronchial asthma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 7 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example C; Page 565; 1103pp; English.
02-APR-2001; 2001US-0280822P.
02-APR-2001; 2001US-0280900P.
03-APR-2001; 2001US-0281575P.
13-APR-2001; 2001US-0281575P.
03-MAY-2001; 2001US-0288066P.
03-MAY-2001; 2001US-028828P.
15-MAY-2001; 2001US-028828P.
16-MAY-2001; 2001US-029129P.
16-MAY-2001; 2001US-029129P.
16-MAY-2001; 2001US-029129P.
16-MAY-2001; 2001US-029139P.
19-MAY-2001; 2001US-029488P.
31-MAY-2001; 2001US-029488P.
19-JUN-2001; 2001US-029489P.
19-JUN-2001; 2001US-029930P.
19-JUN-2001; 2001US-029930P.
10-JUL-2001; 2001US-029930P.
11-JUL-2001; 2001US-029930P.
11-JUL-2001; 2001US-029930P.
11-JUL-2001; 2001US-029930P.
11-JUL-2001; 2001US-039930P.
12-SEP-2001; 2001US-0318462P.
13-SEP-2001; 2001US-0318462P.
13-SEP-2001; 2001US-0318462P.
13-SEP-2001; 2001US-0318462P.
13-SEP-2001; 2001US-0318462P.
13-SEP-2001; 2001US-031830P.
                                                                                                                                                                                                                                                                                                                                                          16-AUG-2001, 2001US-0312903P.
10-SEP-2001, 2001US-0312903P.
12-SEP-2001, 2001US-0318462P.
27-SEP-2001, 2001US-0325430P.
27-SEP-2001, 2001US-0325681P.
18-OCT-2001, 2001US-0330380P.
14-NOV-2001, 2001US-0332172P.
14-NOV-2001, 2001US-0333272P.
14-NOV-2001, 2001US-0333184P.
14-NOV-2001, 2001US-0333184P.
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Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (CURA-) CURAGEN CORP.
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Gaps . 0 ô

The invention relates to a composition (I) comprising AGP-3 receptor (tumour necrosis factor ligand family member) related protein (II) attached to a vehicle protein. (I) is useful for modulating AGP-3-related activity in mesanteric lymph nodes (MLN) of a mammal. (II) is useful in assays to identify cells and tissues that express AGP-3R or proteins related to AGP-3R related protein and for identifying compounds (agonists or antagonists) that interact with AGP-3R proteins. (II) is also useful for identifying intracellular proteins that interact with the respective cytoplasmic domains by yeast two-hybrid screening process. (II) is also useful for identifying intracellular proteins that interact with the respective cytoplasmic domains by yeast two-hybrid screening process. (II) is also useful in lymph node, spleen, and Peyer's patches. AGP-3R agonists and antagonists involved using (II) are used for modulating B cell response and are used to treat disease characterised by inflammatory processes or deregulated immune response such as rheumatoid arthritis, graft-versusches to the hybridoma cells which are derived from B cells, which involves treating the hybridoma cells with (II). (II) is useful in the production of hybridoma cells with (II). (II) is useful in the treating the hybridoma cells with (II). (II) is useful in the creating the phorized procession of joines or antagonists are useful for treating the phorized that, amportophic lateral sclerosis (ALS). Alzheimer's disease, asthma, atherosclerosis, cachexia/anorexia, isochaemic injury including crebral ischaemia, multiple myeloma injury, celerosis, parkinson's disease, pain, reperfusion injury, dermatclogical; neuroprotective; noctropic; immunomodulator; metabolic; antidabetic; analgesic; nephrotropic; osteopathic; cytostatic; fever; antidabetic; analgesic; nephrotropic; osteopathic; cytostatic; fever; AGP-3 receptor; tumour necrosis factor ligand family; AGP-3 receptor; mesenteric lymph node; AGP-3R; inflammatory disease; immune disorder; rheumatorid arthritis; graft-versus-host disease; Crohn; s disease; pancreatitis; amyotrophic lateral sclerosis; ALS; Alzheimer's disease; diabetes; glomerulnosphiclas, inflammatory bowel disease; ischaemia; ss; multiple sclerosis; Parkinson's disease; transgenic animal; PCR primer. Composition, useful for identifying modulator of receptor for treating asthma and glomerulonephritis, comprises AGP-3 (tumor necrosis factor ligand family member) receptor and encoding nucleic acids. Mouse; AGP-3; antiinflammatory; antiarthritic; immunosuppressive; Disclosure; Page 39; 124pp; English. 306 CCCACTCAGCTCTGCACCAG 325 CCCATTCAGCACTGAAACAG 20 BP. 12-FEB-2001; 2001WO-US004568 11-FEB-2000; 2000US-0181800P AAS18551 standard; DNA; 20 (first entry) Mouse AGP-3 PCR primer #5. WPI; 2002-049441/06. (AMGE-) AMGEN INC. Boyle WJ, Hsu H; WO200185782-A2. Mus musculus. 12-MAR-2002 AAS18551; RESULT 1360 AAS18551/c ઠે

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Human, C/BBP beta, CCAAT/enhancer-binding protein beta, C/BBB2; LAP;
TCF5, CRP2; NFIL6; IL6DBP; NF-M; AGP/BBP; Apc/BBP; transcription factor;
tissue development; cellular function; proliferation; differentiation;
hormone responsiveness, oxidative stress response;
IL-6 signalling mediator; interleukin-6; carbohydrate metabolism;
immunity; Thi response; female fertility; gluconeogenesis; ovarian;
cancer; tumour formation; type II; diabetes; infection; inflammation;
expression inhibition; phosphorothioate; antisense oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides. All 2' MOE
cytosines are 5-methylcytosine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides. All 2' MOE
cytosines are 5-methylcytosine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel antisense compound targeted to nucleic acids encoding human or mouse CCAAT/enhancer binding protein (C/EBP) beta, useful in vitro for inhibiting expression of human or mouse C/EBP beta in cells/tissues.
                                                                                                                                                                                                                                                                                                                                                                                     Human C/EBP beta phosphorothioate antisense oligonucleotide, SEQ ID:74
                                                                                                                                             Gaps
septic shock, etc. The nucleic acids are also useful for developing transgenic animals expressing (II), which are useful for producing the polypeptides and for the study of in vivo biological activity. The present sequence represents mouse AGP-3 PCR primer #5
                                                                                                                                             ;
0
                                                                                                           0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "Phosphorothioate linkages"
                                                                            Sequence 20 BP; 6 A; 7 C; 7 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 15; Col 43-44; 69pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                            916 CTGTTCCTGTTCCAGCTGCT 935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mod_base= OTHER
                                                                                                                                                                                                          20 crerrecrererecececeir 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Monia BP, Butler MM, Wyatt J;
                                                                                                                                                                                                                                                                                         ABL94308 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14-JUN-2000; 2000US-00593711.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-JUN-2000; 2000US-00593711.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              υ
                                                                                                                                                                                                                                                                                                                                                        29-JUL-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                L. .5
/*tag= b
                                                                                                             Query Match 0.83
Best Local Similarity 80.03
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-214451/27.
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modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-AUG-2001.
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                                                                                                                                                                                                                                                              RESULT 1361
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88;

of e.g. tumor.

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Sequences ABL94252-ABL94476 represent antisense oligonucleotides targeted to the human or mouse CCAAT/enhancer-binding protein alpha (C/EBP alpha) gene, which inhibit its expression. The antisense oligonucleotides were designed to target different regions of the human and/or mouse C/EBP alpha RNA, and were analysed for their effect on C/EBP alpha mRNA levels by quantitative real-time PCR. The C/EBP family of proteins are a family of transcription factors which regulate the expression of a wide range of genes that control normal tissue development, cellular function, cellular proliferation and functional differentiation. C/EBP beta (alabo known as C/EBP2. LAP, TCFS, CRE2, NFL6, ILGDBP, WF-W, AGP/EBP and Apc/EBP) or marily regulates hormone responsiveness and oxidative stress responses or is a mediator of IL-6 (interleukin-6) signaling. C/EBP beta is thought to be involved in carbohydrate metabolism, immunity, the Th1 response, female fertility and gluconeogenic pathways. C/EBP beta is thought to be involved in carbohydrate metabolism, immunity, and testis, with the highest expression found in the lung. It is also expressed at a higher liques expression in pancreas is upregulated in response to chronically elevated levels of glucose, indicating that it is involved in the invention are useful for diagnosis, prevention and treatment of impairment of insulin secretion in type II diabetes. The oligonucleotides conditions associated with C/EBP beta expression, such as cancer (particularly ovarian cancer), tunder formation, diabetes (particularly version, or inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 2 A; 8 C; 7 G; 3 T; 0 U; 0 Other;
                        88888888888888888888888888888888
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4; Indels 0; ch 0.8%; Score 13.6; DB 1; Length 20; 1 Similarity 80.0%; Pred. No. 9.3e+02; 16; Conservative 0; Mismatches 4; Indels 65 TGAAACCCAGGGGGGCCC 84 Query Match Best Local S δ g

20 TGAGACTCCGGGGAGCGCCC 1

ABK49114 standard; DNA; 20 BP. RESULT 1362 ABK49114 

ABK49114;

02-JUL-2002 (first entry)

Human KDR/FLK-1 mutagenic PCR primer for Y801F mutant.

Human; KDR; kinase insert domain-containing receptor; FLK-1; ss; fetal liver kinase-1; cytostatic; antidiabetic; antirheumatic; antiarthritic; signal transduction; phosphorylation; cell proliferation; anglogenesis; tumour; diabetic omentopathy; chronic rheumatoid arthritis; PCR; primer; mutant.

Homo sapiens.

Synthetic.

WO200229090-A1.

11-APR-2002.

02-OCT-2001; 2001WO-JP008684.

03-OCT-2000; 2000JP-00303694. (KYOW ) KYOWA HAKKO KOGYO KK. (SHIB/) SHIBUYA M. Shibuya M, Takahashi T, Furuya A, Shitara K;

WPI; 2002-352237/38.

Screening substances inhibiting the binding of signal-transducing molecule to KDR/Flk-1 phosphorylated at tyrosine at 1175-position, as cell proliferation inhibitors and angiogenesis inhibitors for treatment

```
The invention relates to inhibiting the signal transduction of KDR/FIk-1 (kinase insert domain-containing receptor/fecal liver kinase-1) is by using a substance inhibiting the binding of a signal-transducing molecule to KDR/FIk-1 phosphorylated at tyrosine at the 1175-position. Also included are methods of detecting/inhibiting/screening for cell collecteration, angiogenesis, KDR/Fik-1 signal transduction and KDR/FIk-1 phosphorylation at tyrosine at the 1175-position using the binding inhibitors, compounds obtained by the screening methods, drugs containing the inhibitors, a monoclonal antibody or its fragment recognishing KDR/FIK-1 phosphorylated at tyrosine at the 1175-position, a DNA encoding the company and atransformant obtained by transferring the recombinant vector containing the nost cell. The method is useful for screening substances into a host cell. The method is useful for screening substances inhibitors and anglogenesis inhibitors for treatment of e.g. tumour, diabetic omentopathy and chronic rheumatoid arthritis. A method for cetecting anglogenesis is also provided. The present sequence is a PCR to Phe
                                                  Example 8; Page 65; 81pp; Japanese.
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1281 GCCAGGCATCCTGTCCAACG 1300 1 GACAGGCTTCTTGTCCATCG 20 ð 엄

0; Gaps

'Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; es 16; Conservative 0; Mismatches 4; Indels

Query Match

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Sequence 20 BP; 3 A; 6 C; 5 G; 6 T; 0 U; 0 Other;

ABI97222 standard; DNA; 20 RESULT 1363 AB197222/ XX AB19 XX AB19 XX AB19 XX AB19 XX Huma XX Huma XX Huma XX Huma XX Onco XX Synt' XX Synt' XX XX AC1 XX AC1 XX XX

ABI97222;

BP

(first entry) 16-FEB-2002

Capture oligonucleptide Zip ID#4309 oligo #9.

Human, K-ras, PCR primer; probe, capture probe, mutation detection; ligase detection reaction; LDR: p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.

Synthetic.

WO200179548-A2.

25-OCT-2001.

04-APR-2001; 2001WO-US010958.

14-APR-2000; 2000US-0197271P.

(CORR ) CORNELL RES FOUND INC.

Gerry NP, Favis R, Kliman Barany F, Zirvi M,

MPI; 2002-034366/04.

Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch.

5; Fig 29; 300pp; English Example

The present invention describes a method (M1) for designing capture oligonuclectide probes (I) for use on a support to which complementary oligonuclectide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents e.g. Carptococcus neoformans, Candida albicans and infectious agents e.g. Cryptococcus neoformans, Candida albicans and Aspergillus fumigautus, viruses e.g. T-cell lymphocytocrophis cirus, Epstein-Barr virus and pollovirus, and parasific infectious agents selected from Onchoverva volvulus, Entameeba histolytica and Dracunculus medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency, Turner Syndrome and obesity defects. Detecting cancer involving oncogenes, tumour suppressor genes, or genes involved in DNA amplification, replication, recombination or repair, the cancer is specifically associated with a gene selected from BRCA1 gene, particular sites and infrared microscope of the support at the food and fedetifying if ligation of the oligonucleotide probe particular sites and infrared microscope) the support at the parence or absence of the target mucleotide sequences. Bilazotot to a presence or absence of the target mucleotide sequences in the exemplification of the oligonucleotide sequences used in the exemplification. of the present invention

Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 U; 0 Other;

0; Gaps Ouery Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels

ò g

AAS20906 standard; DNA; 20 BP. AAS20906/c CXXXXBXBXBXBXBXBXBXXXXXBXBXBXXBXCC

AAS20906;

(first entry) 09-APR-2002 Human peptide transporter hPHT1 cDNA RT-PCR primer #3.

Human, peptide histidine transporter 1, hPHT1; peptide transport, peptide-based drug transport, cell membrane, gastrointestinal tract, hPHT1-related disease, reverse transcriptase, RT-PCR, primer, ss.

Homo sapiens

WO200192468-A2. 06-DEC-2001. 31-MAY-2001; 2001WO-US017650

31-MAY-2000; 2000US-0208061P

(RUTF ) UNIV RUIGERS STATE NEW JERSEY.

Knipp GT, Herrera-Ruiz D;

WPI; 2002-130529/17.

Novel isolated human peptide histidine transporter which facilitates peptide transport across cell membranes in gastrointestinal tract, useful as target for evaluating peptide and peptide-based drug transport.

Example 2; Page 55; 95pp; English.

The present invention relates to nucleic acid sequences encoding human

peptide histidine transporter 1 (hPHT1) protein, the hPHT1 proteins and methods for using them. The nucleic acid sequences of the invention are is useful for screening a test compound for human PHT1 modulating activity. The hPHT1 proteins are useful as a target for evaluating crivity. The hPHT1 proteins are useful as a target for evaluating peptide and peptide-based drug transport. The functional characterisation of the hPHT1 proteins are useful as a target for evaluating particular substrate to the molar expression level of hPHT1 provides crucial information regarding the ability of this transporter to facilitate the uptake and transport across cell membranes in the PHT1 proteins facilitate poptide transport across cell membranes in the gastrointestinal tract and other organs in which they are expressed. The identification of full length hPHT1 close facilitates the development of optimal peptide-based drugs for tracting patients with hPHT1-related diseases. AAS20878-AAS20911 represent reverse transcriptase (RT)-PCR primers used in the methods of the present invention 8888888888888888888

Sequence 20 BP; 0 A; 5 C; 12 G; 3 T; 0 U; 0 Other;

Gaps .; 0.8%; Score 13.6; DB 1; Length 20; 10.0%; Pred. No. 9.3e+02; .ve 0; Mismatches 4; Indels 80.08; 16; Conservative Best Local Similarity Query Match Matches

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RESULT 1365 ABK67749 

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ABK67749 standard; DNA; 20

ABK67749;

02-JUL-2002 (first entry)

Mouse transglutaminase associated PCR primer #9.

Transglutaminase; TGM; transamidation; autoimmune disease; Addison's disease; Al haemolytic anaemia; Al thrombocytopenic purpara; Al thyroid disease; Al haemolytic anaemia; Al thrombocytopenic purpara; Al thyroid disease; atrophic gastritis; pernicious anaemia; Chron's disease; colitis ulcerosa; Goodpasture syndrome; IgA nephropathy; Goldrominian disease; partial lipodystrophy; polymyositis; primary biliary cirthosis; primary sclerosing cholangitis; progressive systemic sclerosis; recurrent pericarditis; primary claring polychondritis; and syndromic relapsing polychondritis; neumatism; sarcoidosis; SLE; splenic atrophy; diabetes; Wegener granulomatosis; ulcerative colitis; vasculitis; vitiligo; PCR; primer; ss.

Mus sp

WO200222830-A2.

21-MAR-2002.

14-SEP-2001; 2001WO-GB004120.

15-SEP-2000; 2000GB-00022768. 16-MAY-2001; 2001GB-00011995.

(UYCA-) UNIV COLLEGE CARDIFF.

Grenard PM; Aeschlimann DP,

WPI; 2002-329954/36.

and TG-Y Nucleic acids which encode novel transglutaminase enzymes TG-Z which can be used in diagnostic methods of autoimmune diseases.

Disclosure, Page 27; 67pp; English.

The invention relates to nucleic acids which encode novel polypeptides having transglutaminase activity. The compositions of polypeptide are useful for transamidation reactions on peptides and polypeptides.

schultz621-3.rng

Detection of the polypeptides with transglutaminase activity are useful in a subject or in cells derived from a subject having an autoimmune disease. The method for detecting transglutaminase proteins may be used to diagnose autoimmune diseases which include Addison's disease, Al haemolytic anaemia, Al thrombocytopenic purpara, Al thyroid disease, atrophic gastritis, permicione, IgA nephropathy or IgG disease, colitis ulcerosa, Goodpasture syndrome, IgA nephropathy or IgG glomerulonephritis, mysathenia gravis, partial lipodystrophy, polymyositis, primary biliary dirthosis, primary sclerosing cholangitis, progressive systemic sclerosis, recurrent pericarditis, relapsing propracy polymyositis, phenumatoid arthritis, rheumatism, sarcoidosis, Sjogren's syndrome, SiE, splenic atrophy, type I (insulin-dependent) diabetes mellitus, Wegener granulomatosis, ulcerative colitis, vasculitis (both syndromic attorned) and vitiligo. This sequence represents a primer used in the study of transglutaminase genes in which DNA, amino acid sequence. determined

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Sequence 20 BP; 5 A; 3 C; 9 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels 599 TIGGGAAACTGGAGACCTAC 618 rrecedacrecadadacade 20 à

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Gaps ;

ABQ81403 standard; DNA; 20 BP

(first entry) 12-DEC-2002 AB081403;

Arabidopsis AINTEGUMENTA-like gene PCR primer.

Lipid metabolism regulator; LTR; plant; transgenic plant; transcription factor; seed oil; oilseed; cardiant; wril; AINTEGUMENTA; PCR; primer; ss.

Arabidopsis thaliana.

WO200272775-A2.

19-SEP-2002

08-MAR-2002; 2002WO-US007441.

08-MAR-2001; 2001US-0274170P.

(BADI ) BASF PLANT SCI GMBH.

Benning C, Cernac A; WPI; 2002-713509/77. New isolated lipid metabolism regulator nucleic acid, useful for producing transpent plants having modified level of seed storage compound, e.g. lipids for generating seed oils which have the ability of reducing risk of heart disease.

Example 2; Page 34; 72pp; English.

The present sequence is that of a primer for an AINTEGUMENTA-like protein gene of Arabidopsis thallana. Overlapping PCR primers (see ABG1398-407) were used in amplification and sequencing reactions to identify sequence changes in 2 wril mutants compared to wild-type sequences in order to identify the true wril gene. In subsequent experiments, wril mutants were complemented with cosmids containing wild-type genomic DNA, and PCR was used to produce a full-length wril cDNA (see ABG81395) encoding a lipid 

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metabolism regulator (LMR) protein (see ABB79954). LMR is suggested to act as a transcription factor regulating lipid and seed storage compound metabolism during seed development. The invention relates to the use of LMR nucleic acids in the production of transgenic plants having a modified level of a seed storage compound. The level of a lipid, fatty acid, starch or seed storage protein can be modified, yielding a seed only that is medically and nutritionally useful in reducing the risk of heart
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                                                                                                                                                                                                                                                                                                         Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                            1688 TCTTCCCTGCTTACTCTG 1707
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                                                                                                                                                                                                      disease
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Human, cyclin-dependent kinase, CDK, cyclin-dependent kinase inhibitor, inhibitor; cancer; age-related disease; promoter; atherosclerosis; cytostatic; antiarteriosclerotic; nootropic; neuroprotective; nephrotropic; antiarthitic; arthritis; renal disease; Alzheimer's disease; amyloidosis; PCR; primer; ss. Human Mac2-BP promoter PCR primer SEQ 1D NO: 68. ABT08433 standard; DNA; 20 (first entry) 27-NOV-2002 ABT08433; RESULT 1367 ABT08433 

01-FEB-2002; 2002WO-US002784. 01-FEB-2001; 2001US-0265840P. 21-MAY-2001; 2001US-00861925. WO200266681-A2. Homo sapiens. 29-AUG-2002.

Chang B; (UNII ) UNIV ILLINOIS FOUND. Poole J, Roninson IB,

WPI; 2002-674960/72.

New recombinant expression construct, useful for identifying compounds that inhibit the induction of genes induced by cyclin-dependent kinase inhibitors for preventing or treating cancer, renal failure or Alzhaimer's disease.

Example 11; Page 133; 137pp; English.

The present invention relates to a recombinant expression construct encoding a reporter gene operably linked to a promoter from a mammalian gene induced by a cyclin-dependent kinase (CDK) inhibitor. The construct is useful for identifying compounds that inhibit the induction of genes induced by CDK inhibitors. The compounds are useful for preventing or treating a disease caused by CDK inhibitor induced gene expression, e.g. cancer other than colon cancer, renal failure, Alzheimer's disease, amyloidosis, age-related diseases, atherosclerosis or arthritis. The present sequence is a PCR primer used to amplify a human promoter suitable for use in the construct of the invention

Sequence 20 BP; 5 A; 3 C; 7.G; 5 T; 0 U; 0 Other;

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The invention relates to a method of measuring beta 1,4-N-acetylgalactosaminyltransferase (GD2/GM3 synthase) mRNA. The method involves obtaining an mRNA sample, performing real-time quantitative reverse transcriptase-polymerase chain reaction (RT-PCR) on the sample using appropriate primers of GD2 synthase, and determining the amount of GD2 mRNA. The methods and kits are useful for detecting and/or diagnosing various forms of cancer such as neuroblastoma, melanoma, B cell lymphoma, osteosarcoma, soft tissue sarcoma, medullablastoma, high-grade astrocytoma, retinoblastoma, Wilm's tumour, Ewing's sarcoma, bladder carcinoma, lung cancer, breast cancer, pancreatic cancer, osesophageal cancer, gastrointestinal cancer, sarcoma, head and neck tumours or melanoma. The present sequence is BAGE marker gene specific RT-PCR primer, used to illustrate the method of the invention
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                                                                                                                                                                                                                                                                                                                                                                                           Measuring GD2 synthase mRNA, useful for detecting or diagnosing cancer, e.g. neuroblastoma, small cell lung cancer, melanoma, by performing realtime quantitative RT-PCR on the sample using appropriate primers of GD2
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cytostatic, antiinflammatory, inhibitor, infection, inflammation, tumour,
    cancer; neuroblastoma; melanoma; lymphoma; carcinoma; sarcoma; tumour; primer; BAGB; ss.
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80.0%; Pred. No. 9.3e+02;
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modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel recombinant blood coagulation factor VIII, its production process and its medicinal composite for treating type-A haemophilia. The invention further comprises a medicinal composition containing the blood coagulation factor which promotes blood coagulation to the blood plasma of type-A haemophilia patients. This polynucleotide sequence represents an oligo relating to the recombinant blood coagulation factor VIII protein of the invention.
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                                           Gaps
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Pred. No. 9.3e+02;
0; Mismatches 4; Indels
  Length 20;
                                         4; Indels
                                                                                                                                                                                                                                                                                                                                                                                           blood coagulation factor VIII; type-A haemophilia; ss.
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Score 13.6; DB 1;
Pred. No. 9.3e+02;
0; Mismatches 4;
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Best Local Similarity 80.00,
Best Local Similarity 80.00,
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                                       16; Conservative
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Query Match
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Matches 16; Conserv
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AAD53075
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23-APR-2002; 2002WO-US013135. 24-APR-2001; 2001US-0286137P. (EPIG-) EPIGENESIS PHARM INC. Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or ubiquinone.

Disclosure; SEQ ID NO 5692; 872pp; English.

Pabalan J, Aguilar D;

Katz E,

Li Y, Sandrasagra A, K Tang L, Shahabuddin S;

Li Y,

Nyce JW, Miller S,

WPI; 2003-229219/22.

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                                                                                                                                                                                                                                                                                                    This invention describes a novel compound, 17-50 nucleobases in length which specifically hybridises with a nucleic acid encoding human which specifically hybridises with a nucleic acid encoding human but apoptosis regulator (BAR) and inhibits the expression of human BAR. The products of the invention have cytostatic and antiinflammatory activity and can be used to inhibit human BAR expression of during antisense therapy, useful for inhibiting the expression of human BAR in calls or tissues and for tracting diseases associated with expression of BAR in an animal, particularly a human suspected of having companies or condition associated with expression of chuman BAR. In addition the antisense oligonacleotides are useful for diagnostics, therapeutics and as research reagent, e.g. prophylactically to prevent or delay infection, inflammation or tumor formation. The coligonucleotides described in the invention human BAR antisense or coligonacce expressents a human BAR antisense oligonucleotide described in the disclosure of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
-14 are 2'-deoxy- nucleotides, all C nucleotides are methyl cytosines"
                                                                                                                                                                                                                 New antisense compounds targeted to nucleic acids encoding human bifunctional apoptosis regulator, for modulating expression of the regulator and treating diseases associated with expression of the regulator in humans.
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                                                                                                                                                                                                                                                                                Claim 3; Col 45-46; 42pp; English.
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                                                                                       27-APR-2001; 2001US-00844525.
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nes 16; Conservative
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                                       US6468796-B1
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The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonucleotide antisense to the intialiation coodon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of installation codon, coding region, 5' or regions within 2-10 nucleotides of class all airway dysfunctions and a second active agent comprising an antiinflammatory steroid and ubjournone. A composition of the invention has antiinflammatory actorid and ubjournone. A composition of the invention has antiinflammatory antiallargic antiasthmatic, hypotensive, commonspressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing levels of adenosine of or reducing sensitivity to adenosine, reducing levels of ubjouinne or lung surfactant in a subject, to treating bronchoconstriction, lung surfactant in a subject stissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition.

Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at the printed specification, but was obtained in electronic format directly from WIPO
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Pred. No. 9.3e+02;
0; Mismatches 4; Indels
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31-OCT-2002.

31-OCT-2002

schultz621-3.rng

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Pharmaceutical composition for treating ailments associated with impaired
                                                                                      respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid
      23-APR-2002; 2002WO-US013135.
                   24-APR-2001; 2001US-0286137P.
                                (EPIG-) EPIGENESIS PHARM INC
                                                                  WPI; 2003-229219/22.
                                             Nyce JW, I
Miller S,
                                                                                                   ubiquinone
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The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligomucleotide antisense to the initiation codon, coding region, 5' or 3' or and genomic flanking regions; 5' and 3' intron-exon junctions, or regions within 2-10 mucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubsquinone. A composition of the invention has antiinflammatory, antiallargic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also preventing a respiratory, lung or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing bronchoconstriction, lung surfactant in a subject's tissue, or treating bronchoconstriction, lung shiflammation, lung alleragies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
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Disclosure; SEQ ID NO 7845; 872pp; English.
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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels Similarity Query Match Best Local S Best Loc Matches

16 GGATGGACAGGAATGCAGAG 35 deardeceddaacrecacad 1 ઠે

16; Conservative

ABZ88825 standard; DNA; 20 BP ABZ88825; ABZ88825 

(first entry) 17-0CT-2003

Human oligonucleotide sequence.

Human, antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory; antiallergic; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.

Homo sapiens

WO200285308-A2.

31-OCT-2002

23-APR-2002; 2002WO-US013135.

24-APR-2001; 2001US-0286137P

(EPIG-) EPIGENESIS PHARM INC

Pabalan J, Aguilar D; Katz E, Li Y, Sandrasagra A, K Tang L, Shahabuddin S; Nyce JW, I Miller S,

WPI; 2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid

Disclosure; SEQ ID NO 4067; 872pp; English.

ubiquinone

or

Katz E, Pabalan J, Aguilar D;

Li Y, Sandrasagra A, Ki Tang L, Shahabuddin S;

The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonuclectide antisense to the intiation coden, coding region, 5 or 3 end genemic flanking regions, 5 or 3 end genemic flanking regions, 5 or 3 end genemic flanking regions, 5 or regions within 2-10 muclectides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, communosuppressive, and cytostatic activity. The composition may have use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing bronchoconstriction, lung surfactant in a subject's tissue, or treating bronchoconstriction, lung sinflammation, lung allowers or a respiratory disease or condition not be printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences 

Sequence 20 BP; 6 A; 4 C; 1 G; 9 T; 0 U; 0 Other;

Gaps **ò**\_7 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels Best Local Similarity 80.0 Matches 16; Conservative Query Match

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Gaps

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RESULT 1374 ABZ87133/c

ABZ87133 standard; DNA; 20 BP 

(first entry) 17-0CT-2003 ABZ87133;

Human oligonucleotide sequence.

antiinflammatory steroid, ubiquinone, antiinflammatory, antiallergic, antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy, antisense gene therapy; respiratory; lung, adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds. antisense; lung dysfunction; nasal airway dysfunction;

Homo sapiens

WO200285308-A2

31-OCT-2002

Pabalan J, Aguilar

Katz E,

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first active agent comprising an object of the statement 
                                                                                                                                                                                                                                                                                                                                            Pharmaceutical composition for treating ailments associated with impaired
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antiinflammatory steroid, ubiquinone, antiinflammatory, antiallergic,
antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy,
antisense gene therapy, respiratory; lung; adenosine sensitivity;
adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
lung inflammation; respiratory disease; ds.
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                                                                                                                                                                                                                                                                                                                                                                        respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 15; SEQ ID NO 2375; 872pp; English.
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                                                                                                                                                                                             Li Y, Sandrasagra A, K
Tang L, Shahabuddin S;
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                           23-APR-2002; 2002WO-US013135.
                                                                                  24-APR-2001; 2001US-0286137P.
                                                                                                                                         (EPIG-) EPIGENESIS PHARM INC
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Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                                                                                                                                                                                                  WPI; 2003-229219/22.
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The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonuclectide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions; 5' and 3' intron-exon junctions, 5' or regions within 2-10 nuclectides of 5' and 3' intron-exon junctions, or regions within 2-10 nuclectides of incrincians of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active dwith lung and/or antiinflammatory steroid and ubiquinone. A composition of the invention than antiinflammatory antiallergic, antiaethmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antiinflammatory, antiallergic, antiaethmatic, phypotensive, or reducing sensitivity to malignant disease or condition, also preventing a respiratory, lung or malignant crapitatory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of or enhancing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing bronchoconstriction, lung surfactant in a subject's tissue, or treating bronchoconstriction, lung surfactant in a subject's tissue, or treating bronchoconstriction, lung sinflammation, lung altergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                            Pharmaceutical composition for treating ailments associated with impaired
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human, antisense, lung dysfunction, nasal airway dysfunction, antinflammatory steroid, ubiquinone, antinflammatory, antiallergic, antiasthmatic; hypotensive, immunosuppressive, cytosteatic, gene therapy, antisense gene therapy, respiratory, lung, adenosine sensitivity, adenosine receptor, bronchodilation, bronchoconstriction, lung allergy, lung inflammation, respiratory disease; ds.
                                                                                                                                                                                                                                                                                 respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid
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Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                                                 Katz E, Pabalan J,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                    Disclosure, SEQ ID NO 7659; 872pp; English.
                                                                                                                                               Li Y, Sandrasagra A, Ka
, Tang L, Shahabuddin S;
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                    23-APR-2002; 2002WO-US013135.
                                                              24-APR-2001; 2001US-0286137P.
                                                                                                     (EPIG-) EPIGENESIS PHARM INC
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Best Local Similarity 80.0°
Matches 16; Conservative
                                                                                                                                                                                                                  WPI; 2003-229219/22.
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                                                                                                                                                                                                                                                                                                                          ubiquinone.
                                                                                                                                                                      Miller S,
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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; iive 0; Mismatches 4; Indels

(first entry)

31-OCT-2002.

WO200285308-A2. Homo sapiens.

31-OCT-2002

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ubiquinone.
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Li Y, Sandrasagra A, Katz B, Pabalan J, Aguilar D;
Tang L, Shahabuddin S;
23-APR-2002; 2002WO-US013135.
                                              24-APR-2001; 2001US-0286137P.
                                                                                         (EPIG-) EPIGENESIS PHARM INC
                                                                                                                                                                                                                  WPI; 2003-229219/22.
                                                                                                                                       Nyce JW, I
Miller S,
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Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

Disclosure; SEQ ID NO 3318; 872pp; English.

first active agent comprising an oligonucleotide antisense to the intration codon, coding region, 5' or 3' end genomic flanking regions, initiation codon, coding region, 5' or 3' end genomic flanking regions, intran-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiathmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject, for treating bronchocanstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed or fer this printed or fear in the printed or fear in the form with form with form and contains the form of the form or the form of at ftp.wipo.int/pub/published\_pct\_sequences

Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;

; 0 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ve. 0; Mismatches 4; Indels Best Local Similarity 80.0%; Matches 16; Conservative

457 GAGGACATCAACAAGCGCCT 476 GAGGAGCTCAACAAGCTGCT 20

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ABZ88262 standard; DNA; 20 BP ABZ88262/

ABZ88262; 

(first entry) 17-0CT-2003

Human oligonucleotide sequence.

Human, antisense, lung dysfunction, nasal airway dysfunction, antinflammatory steroid, ubiquinone; antinflammatory; antiallergic, antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy, antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.

Homo sapiens

WO200285308-A2.

31-OCT-2002

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23-APR-2002; 2002WO-US013135.
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24-APR-2001; 2001US-0286137P.

(BPIG-) EPIGENESIS PHARM INC

Pabalan J, Aguilar D; Katz E, Li Y, Sandrasagra A, K Tang L, Shahabuddin S; Nyce JW, I Miller S,

WPI; 2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or ubiquinone

Disclosure; SEQ ID NO 3504; 872pp; English.

The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligomucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 mucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or mallignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of of an antiinflammation, lung antiense, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, lung alfalmmation, lung alergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

Sequence 20 BP; 7 A; 6 C; 3 G; 4 T; 0 U; 0 Other;

ö Score 13.6; DB 1; Length 20; Pred. No. 9.3e+02; 0; Mismatches 4; Indels 0.8%; Query Match
Best Local Similarity 80.0
Matches 16; Conservative

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ABZ84865 standard; DNA; 20 BP.

ABZ84865;

17-OCT-2003 (first entry)

Human oligonucleotide sequence.

Human, antisense, lung dysfunction, nasal airway dysfunction, antiinflammatory steroid, ubiquinone, antiinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, cytostatic, gene therapy, antisense gene therapy, respiratory, lung, adenosine sensitivity, adenosine receptor, bronchodilation, bronchoconstriction, lung allergy, lung inflammation, respiratory disease, ds. RESULT 1378
ABZ84865
XX
AC ABZ84866
AC ABZ84866
AC ABZ84866
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XX
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AC ABZ84866
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Homo sapiens.

WO200285308-A2

31-OCT-2002.

schultz621-3.rng

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The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonuclectide antisense to the introduced coding coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 muclectides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antihilammatory steroid and ubiquinone, A composition of the invention has mutinflammatory, antialergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also antihilammatory steroid in a subject, for reducing levels of an antihilammatory steroid in a subject, for reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject sitesue, or treating bronchoconstriction, lung airlammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO.
                                                                                                                                                                                                                                                                                   Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                Li Y, Sandrasagra A, Katz E, Pabalan J,
Tang L, Shahabuddin S;
                                                                                                                                                                                                                                                                                                                                                                                                        Claim 15; SEQ ID NO 107; 872pp; English.
                         23-APR-2002; 2002WO-US013135.
                                                                    24-APR-2001; 2001US-0286137P.
                                                                                                                  (EPIG-) EPIGENESIS PHARM INC.
                                                                                                                                                                                                                                     WPI; 2003-229219/22.
                                                                                                                                                                   Nyce JW, I
Miller S,
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Gaps .. 0 Query Match

0.8%; Score 13.6; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 9.3e+02;
Matches 16; Conservative 0; Mismatches 4; Indels Sequence 20 BP; 3 A; 11 C; 2 G; 4 T; 0 U; 0 Other;

299 CACGGGGCCCACTCAGCTCT 318 cácrerececaceacier 20

à

ABZ85601/c ID ABZ85601 standard; DNA; 20 BP RESULT 1379

17-OCT-2003 (first entry) ABZ85601;

Human oligonucleotide sequence.

Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory; antiallergic; antiinflammatory; antiallergic; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive, cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.

Homo sapiens

WO200285308-A2

31-OCT-2002 

23-APR-2002; 2002WO-US013135.

24-APR-2001; 2001US-0286137P.

(EPIG-) EPIGENESIS PHARM INC

Aguilar D;

Aguilar D; Pabalan J, Katz E, Li Y, Sandrasagra A, K Tang L, Shahabuddin S; Nyce JW, I Miller S,

WPI; 2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or ubiquinone.

Claim 15; SEQ ID NO 843; 872pp; English.

The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonuclectide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory teroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthematic, hypotensis or the invention has antiinflammatory, antiallergic, antiasthematic, hypotensis or composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of antiinflammation, ing also the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing levels of adenosarine receptor, producing bronchodilation, increasing levels of adenosarine receptor, producing bronchodilation, increasing levels of adenosarine receptor, producing bronchodilation, increasing levels of adenosarine receptor, broducing bronchodilation, increasing levels of adenosarine receptor, but was obtained in electronic format directly from WIPO and format directly from WIPO ftp.wipo.int/pub/published\_pct\_sequences 

Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;

Gaps . 0 Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels

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ABZ86435 standard; DNA; 20 BP RESULT 1380

17-OCT-2003 (first entry) ABZ86435;

Human oligonucleotide sequence. BX8X8X4X8X4X8X8X8X8X8

Human, antisense, lung dysfunction, nasal airway dysfunction, antiinflammatory steroid; ubiquinone, antiinflammatory, antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy, antisense gene therapy, respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.

Homo sapiens

WO200285308-A2

31-OCT-2002.

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Li Y, Sandrasagra A,
Tang L, Shahabuddin
   23-APR-2002; 2002WO-US013135.
         24-APR-2001; 2001US-0286137P.
               (EPIG-) EPIGENESIS PHARM INC
                    Nyce JW,
Miller S,
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Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or WPI; 2003-229219/22.

Claim 15; SEQ ID NO 1677; 872pp; English

The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonucleotide antisense to the intitation codon, coding region, 5 or 3 end genomic flanking regions, 5 and 3 intron-exon junctions, or regions within 2-10 nucleotides of Junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubjections. A composition of the invention has antiinflammatory, antiallergic, for reducing or depleting levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing bronchoconstriction, lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition.

Specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

Sequence 20 BP; 5 A; 2 C; 6 G; 7 T; 0 U; 0 Other;

; 0 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels 16; Conservative Local Similarity Query Match Best Loca Matches

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ABZ92850 standard; DNA; 20 ABZ92850; RESULT 1381 ABZ92850/ 

ВЪ

(first entry) 17-0CT-2003

Human oligonucleotide sequence.

antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; de. Human; antisense; lung dysfunction; nasal airway dysfunction;

Homo sapiens

WO200285308-A2

31-OCT-2002

23-APR-2002; 2002WO-US013135.

24-APR-2001; 2001US-0286137P.

(EPIG-) EPIGENESIS PHARM INC

Aguilar D; Pabalan J, Katz E, Sandrasagra A, Ka L, Shahabuddin S; Li Y, Sar, Tang L, Miller S, Nyce JW,

WPI; 2003-229219/22.

Aguilar D;

Pabalan J,

Katz E, S;

treating ailments associated with impaired or respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid Pharmaceutical composition for ubiquinone

Disclosure; SEQ ID NO 8092; 872pp; English.

institution teracte to a movel pharamaceucida, composition, which has a initiation coden, coding region, 5' or 3' end genomic flanking regions, 5' or 3' end genomic flanking and/or nesal airway dysfunction and a second active agent comprising an east airway dysfunction and a second active agent composition of the invention has antinflammatory antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a immunosuppressive, and cytostatic activity. The composition may have a temperating a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an artificammatory steroid in a subject, for reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing bronchoconstriction, lung allergies, or a respiratory disease or condition.

Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at figure or designation or the printed specification, int, pub/published\_pot\_sequences invention relates to a novel pharmaceutical composition, which has a 

Sequence 20 BP; 4 A; 3 C; 4 G; 9 T; 0 U; 0 Other;

Gaps . Score 13.6; DB 1; Length 20; Pred. No. 9.3e+02; 0; Mismatches 4; Indels 0.8%; Query Match
Best Local Similarity 80.0°
Matches 16; Conservative

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Gaps

RESULT 1382 ABZ75967/

ABZ75967 standard; DNA; 20 ABZ75967; 

(first entry) 29-MAY-2003

ICAM-1 gene targeting 2'-deoxyoligonucleotide ISIS 1939.

ICAM-1; desulphurization; antioxidant; intercellular adhesion molecule-1;

Homo sapiens. Synthetic

WO2003005822-A1.

23-JAN-2003

11-JUL-2002; 2002WO-US022038

11-JUL-2001; 2001US-00902953

(ISIS-) ISIS PHARM INC

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The invention relates to preventing desulphurization of an oligomuclectide or its bioequivalent comprising one or more phosphorothioate linkages in a bi-phasic or multi-phasic formulation. The method involves including in the formulation an antioxidant which partitions into the aqueous phase of the formulation. The method is useful for increasing the stability of oligomucleotide comprising phosphorothioate linkages. The present sequence represents a 2 decoypoligomucleotide having a phosphorothioate backbone and is targeted to the 3 UTR (untranslated region) of ICAM-1 (intercellular adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hormone-sensitive lipase, antisense oligonucleotide, inhibitor; obesity, phosphorochioace, antidiabetic; anorectic; cytostatic; antisense therapy, abnormal metabolic condition; hyperpripidaemia; type 2 diabetes; cancer; hyperproliferative disorder; human; ss.
                                                                                                                      Preventing desulfurization of oligonucleotide comprising phosphorothioate linkages in bi-phasic/multi-phasic formulation, by adding to formulation an antioxidant that partitions into aqueous phase of the formulation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human HSL chimeric phosphorothioate oligonucleotide SEQ ID NO:106.
                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mod_base= OTHER
note= "2'-O-methoxyethyl (2'-MOE)
16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1. 20
//rdg= a
//mod base= OTHER
/note= "phosphorothioate linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /mod_base= OTHER
/note= "2'-0-methoxyethyl (2'-MOE)
                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                  Disclosure; Page 12; 51pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              226 GAGAGTGGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAGAGGGGAAGTGGTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABZ82717 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 l. .5
/*tag= b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                                                                                          WPI; 2003-229426/22
                                                            Mehta R;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            modified base
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                                                                                                                                                                                                                                                                                                                                                       molecule-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
                                                            Krotz AH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABZ82717;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 1383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo
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15-JUL-2002; 2002WO-US022672.

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The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding a hormone-sensitive lipase (HSL) or a splice variant of HSL. The compound specifically hybridises with and inhibits the expression of HSL or a splice variant of HSL, or specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding HSL. (I) have anorectic, antidiabetic and cytostatic acidityties, and can be used in antisense therapy. (I) is useful for treating an animal, particularly human, hyperlipidaemia, type 2 diabetes, a hyperproliferative disorder such as cancer (e.g. picuitary, colorectal, breast, testicular, pulmonary or epithelial cancer). (I) is also useful in modulating blood glucose levels, particularly plasma or serum glucose levels, in a diabetic animal. The present sequence represents a human hormone-sensitive lipase chimeric phosphorothicate antisense oligonucleotide, which is used in an example from the present invention
                                                                                                                                               New antisense oligonucleotides targeted against nucleic acids encoding hormone-sensitive lipase, useful for treating abnormal metabolic condition, e.g. hyperlipidemia and obesity, or a hyperproliferative disorder, e.g. cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   enhanced gastrointestinal absorption; ulcerative colitis; rheumatoid archritis, Crohn's disease; inflammatory bowel disease; abnormal cellular proliferation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Inhibition; phosphorothioate; delayed release oral formulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ICAM-1 inhibitory antisense oligonucleotide SEQ ID NO:2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "phosphorothioate linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 4 A; 6 C; 4 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 13.6; DB 1;
Pred. No. 9.3e+02;
0; Mismatches 4;
                                                                                Wyatt JR;
                                                                                                                                                                                                                               Example 15; Page 89; 167pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1003 ATCAACGAGAGAGAGCT 1022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag= a
/mod base= OTHER
                                                                                Freier SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 ATCACCGAGATGGAAGTGCT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           H.
                26-JUL-2001; 2001US-00915814.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             170/c
ACC49170 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 80.0
Matches 16; Conservative
                                              (ISIS-) ISIS PHARM INC
                                                                                Watt AT,
                                                                                                                WPI; 2003-239411/23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2003017940-A2
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modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-JUN-2003
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                                                                                Butler MM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACC49170;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1384
ACC49170/c
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Gaps

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4; Indels

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3 TT:0T:40 7004
Mon May
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22-AUG-2001; 2001US-00944493 (ISIS-) ISIS PHARM INC Geary RS, Hardee GE; Tillman LG, Weinbach SP,

WPI; 2003-354422/33.

Pulsed release oral formulation providing enhanced gastrointestinal absorption, comprises first particles containing drug and penetration enhancer and second particles containing delayed release penetration

Disclosure; Page 28; 59pp; English.

The present invention describes a delayed release oral formulation (A), giving enhanced gastrointestinal (GI) absorption of a drug (I). (A) comparises a first set of particles containing (I) and a penetration enhancer (II) and a second set of particles containing (II) in a delayed release coating or matrix (III). (A) is used for enhancing the absorption of [II] in mammala, especially humans. Typical disorders to be treated include ulcerative colitis, rheumatoid arthritis, Crohn's disease inflammatory bowel disease and abnormal cellular proliferation. When the particles release (I) and (II) at a first location in the GI tract (generally the intestines), (II) is rapidly absorbed (during a first release pulse) and is often present in insufficient amount to promote absorption of the entire dose of (I). This problem is solved by providing further (II) in delayed release form in the particles, so that absorption of (I) is completed in a second pulse. The present sequence represents an exemplary oligonucleotide from the present invention which inhibits ICAM-

Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;

0; Gaps Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; les 16; Conservative 0; Mismatches 4; Indels Query Match Best Local S: Matches 16

226 GAGAGTGGTGGTGGCGG 245

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20 GAGAGGGAAGTGGTGGGGG 1

ACC62163

ACC62163;

ACC62163 standard; DNA; 20 BP

(first entry) 20-JUN-2003 Human alipoprotein B antisense oligonucleotide SEQ ID NO: 52.

alipoprotein B; ApoB; antilipaemic; antiarteriosclerotic; antidiabetic; anorectic; cardiovascular; gene therapy; lipid metabolism; cholesterol metabolism; atherosclerosis; hyperlipidaemia; diabetes; type 2 diabetes; obesity; atherosclerosis; cardiovascular disease; glucose; antisense oligonucleotide; ss.

Synthetic

WO2003011887-A2.

13-FEB-2003

30-JUL-2002; 2002WO-US024247.

01-AUG-2001; 2001US-00920033. 30-APR-2002; 2002US-00135985. 15-MAY-2002; 2002US-00147196.

(ISIS-) ISIS PHARM INC

Graham MJ; Crooke RM,

Example 15; Page 96; 160pp; English.

The invention relates to a novel compound that is 8-50 nucleotides in length that is targeted to a nucleic acid molecule encoding apported in a nucleic acid molecule encoding and inhibits the expression of a nucleic acid molecule encoding ApoB; or which specifically hybridises with at least an 8-nucleotide portion of an active site on a nucleic acid molecule encoding ApoB; or which specifically hybridises with at least an 8-nucleotide portion of an activity action and activity and santilipsemic, antitateriosclerotic, antidiabetic, and cardiovascular activity. The compound may have a use in animal having a disease or conditions associated with ApoB, e.g. a condition involving abnormal lipid metabolism, a condition involving an abnormal lipid metabolism, a condition involving an abnormal metabolic condition (e.g. hyperlipidaemia, diabetes (specifically Type 2 diabetes), obseity, atherosclerosis or activity an abnormal metabolic condition of e.g. hyperlipidaemia, diabetes (specifically Type 2 diabetes), obseity, atherosclerosis or cardiovascular disease). The new compound or the antisense oligonucleotide is also useful for modulating glucose levels (specifically VaDL, MDL or LDL) or serum triglyceride levels canimal, or for modulating serum cholesterol levels, lipoprotein levels (specifically VaDL, MDL or LDL) or serum triglyceride levels, particularly in a human. The antisense compound is also useful for serum trighyceride levels, human the onset of a disease or condition associated with ApoBs, or the onset of a disease or condition the animal or human. The present sequence is used in the exemplification of the 

Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;

invention

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ö Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels

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RESULT 1386 ABX13023

ABX13023 standard; DNA; 20 BP. ABX13023; XIXBXBXBXBXBXBXBXBXBXBXXXX

10-MAY-2003 (first entry)

Oxidative stress detection PCR primer #64.

Oxidative stress detection; PCR; primer; ss; risk factor

Homo sapiens.

WO2003016527-A2.

27-FEB-2003.

13-AUG-2002; 2002WO-EP009079.

14-AUG-2001; 2001BE-00000545.

(PROB-) PROBIOX SA.

Pincemail J, Piette J, Marechal D;

BCDUITZ621-3.rnd

WPI; 2003-268105/26.

New antisense oligonuclectides for modulating apolipoprotein B, especially for preventing or treating atherosclerosis, hyperlipidemia or diabetes, or for modulating glucose, cholesterol, lipoprotein or triglyceride levels.

WPI; 2003-074100/07.

Human interleukin 12 p40 subunit antisense oligonucleotide ISIS #139157. Human, ss; antisense; interleukin 12 p40 subunit, antibacterial, antiinflammatory; cytostatic; infection; inflammation; tumour. Sequence 20 BP; 5 A; 3 C; 7 G; 5 T; 0 U; 0 Other; WPI; 2003-268334/26 10-FEB-2003 ABX33984; q 

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markers in a group of individuals. The method comprises determining the risk factor for oxidative stress in the group, measuring the amount of at least 10 different oxidative stress markers in a sample obtained from each of the group of individuals, and comparing the amount of each of the oxidative stress markers with the amount of each of the oxidative stress markers with the amount of each of the oxidative stress the oxidative stress markers are increased or decreased in the group of individuals carrying a risk factor for oxidative stress relative to healthy individuals. This sequence represents a PCR primer used to detect
Determining oxidative stress markers in a group of individuals by comparing the amount of each of the oxidative stress markers obtained from each of the group of individuals with that of the group of healthy
                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a method for determining oxidative stress
                                                                                                                                                                                                                                                                                                 Disclosure; Page 36; 67pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oxidative stress
                                                                                                                                                                                  individuals.
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ö Gaps . 0 Length 20; 4; Indels 0.8%; Score 13.6; DB 1; 80.0%; Pred. No. 9.3e+02; 0; Mismatches 621 TAAGCTGGACAAACTGGGCG 640 reactroachagicarce 20 BP ABX33984 standard; DNA; 20 Conservative Query Match Best Local Similarity Matches 16; Conserv RESULT 1387 ABX33984/c

(first entry)

/note= "All cytosines are 5-methylcytidines and the nucleotides are linked via a phosphorothioate backbone" /notes="2'-methoxyethyl (2'-MOE) nucleotides"
16. .20
/\*tag= c /\*tag= c OTHER
/notes="2'-methoxyethyl (2'-MOE) nucleotides" Location/Qualifiers 1. .20 /\*tag= a /mod\_base= OTHER /\*tag= b /mod\_base= OTHER Key modified\_base modified\_base modified base Homo sapiens

07-MAY-2001; US6448081-B1 10-SEP-2002

(ISIS-) ISIS PHARM INC

Freier SM;

Baker BF,

07-MAY-2001; 2001US-00851062.

ö New antisense chimeric oligonucleotide, useful for modulating the expression of human Interleukin 12 p40 subunit, in treating or preventing disease states in humans and animals, and as research reagents and length targeted to a start codon region, coding region, a stop codon region or a 3'-untranslated region of a nucleic acid molecule encoding human Interleukin 12 p40 subunit. The compound specifically hybridises with one of the regions and inhibits the expression of human Interleukin 12 p40 subunit. The new compound is useful for inhibiting the expression of human Interleukin 12 p40 subunit in cells or tissues and comprises contacting the cells or tissues in vitro with the compound, so that antisense compound may also be used as research reagents and diagnostics, and as treatment or prevention of disease states, e.g. to prevent or delay infection, inflammation or tumour formation, in animals and humans. The present sequence is an antisense oligonucleotide of the invention Gaps The invention relates to an antisense compound 20-50 nucleobases in ö Score 13.6; DB 1; Length 20; Pred. No. 9.3e+02; 0; Mismatches 4; Indels Sequence 20 BP; 4 A; 4 C; 9 G; 3 T; 0 U; 0 Other; 1717 CTGAGCCATGTTCACCTGCC 1736 Example 15; Col 45; 42pp; English. 20 crcaeccacercarcrecc 1 0.8%; Ouery Match Best Local Similarity 80.0 Matches 16; Conservative diagnostics. ઠે 엄

Toxicologically relevant rat PCR primer #1145. 폂. ABZ83986 standard; DNA; 20 (first entry) 14-MAY-2003 ABZ83986; 1388 ABZ83986 RESULT

Toxicologically relevant gene; toxicological response; PCR primer; ss. (PHAS-) PHASE-1 MOLECULAR TOXICOLOGY INC. 16-AUG-2002; 2002WO-US026514. 16-AUG-2001; 2001US-0313080P. WO2003016500-A2 27-FEB-2003. Rattus sp. Synthetic. 

Determining a toxicological response to an agent, useful for screening of drugs, comprises comparing the expression profile of one or more human toxic response genes to a reference gene expression profile indicative of WPI; 2003-268322/26.

Schmeiser

Kier LD,

Pickett GG,

Adkins K,

Neft RE, Dunn RT, Alen P;

Claim 1; Page 326; 455pp; English.

The present invention describes a method (M1) for determining

schultz621-3.rng

RESULT 1389 ADA26797/ 8688888888888888888888888

toxicological response to an agent, which comprises comparing the expression profile of one or more human toxic response genes to a reference gene expression profile indicative of toxicity, and so determining the presence of a toxic response to the agent. Also described: (1) an array comprising one or more polynucleotides selected from the genes corresponding to the partial sequences given in ABS2842 to ABS84764, or their fragments of at least 20 nucleotides, or homologues; and (2) determining if a gene putatively identified to be a toxic response gene playes a role on toxic response pathways by determining the expression profile of the gene after exposure of cells or a human subject to a known toxic pharmaceutical or industrial agent, comprising: (a) exposing cells to an agent or isolating cells from a human subject to a known toxic pharmaceutical or industrial agent, comparing the test or a putatively identified toxic response gene after exposure to a known toxic pharmaceutical or industrial agent; and (c) comparing the test profile to the expression profile of a gene with a similar function or comparing the test profile to the expression profile of a gene with a similar function or comparing the test profile to other known toxic compounds. The methods are useful for predicting and determining toxicological responses on a cellular, organ or system level. The arrays compirating the human genes are useful for toxicological screening of drugs, pharmaceutical compounds and chemicals

Sequence 20 BP; 5 A; 2 C; 10 G; 3 T; 0 U; 0 Other;

Gaps / Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; les 16; Conservative 0; Mismatches 4; Indels Query Match

357 TGATGGGGAGAGTGACCAGG 376 TGAAGGCAGAGTGGTCAGG 20

ADA26797 standard; DNA; 20 BP ADA26797;

20-NOV-2003 (first entry)

Human PRL-3 forward PCR primer #81.

Metastasis, neoplastic growth, detection, prediction, prepared or preplastic growth marker, drug accrealing, cancer, tumour, gastrointestinal, prostate, breast, colorectal, diagnostic imaging, drug targeting, chromosome 8q24.3; human; pročein tyrosine phosphatase type IVA member 3; PRL-3; cytostatic; reverse transcription-PCR; RT-PCR; primer; ss.

Homo sapiens

WO2003031930-A2.

02-OCT-2002; 2002WO-US031247.

09-OCT-2001; 2001US-0327332P.

(UYJO ) UNIV JOHNS HOPKINS.

Vogelstein B, Kinzler KW, Saha S, Bardelli A; 4PI; 2003-393457/37.

Identifying regions of neoplastic growth in a human body, useful for detecting or predicting metastasis, comprises administering to the human body an antibody or peptide that specifically binds to a protein marker of neoplastic growth.

Example 2; Page 22; 42pp; English

The invention relates to methods for identifying regions of neoplastic growth in a human patient, especially for detecting or predicting carewith in a human patient, especially for detecting or predicting carewith in a human patient, especially for detecting or predicting carewith in a werexpressed, either by the use of an antibody specific for the protein, or by the use of FCR or hybridisation to detect nucleic acids encoding the marker proteins. A set of neoplastic growth markers are disclosed (SAGE (serial analysis of gene expression) tags for these are given in ADA26759-ADA26796), with protein tyrosine phosphatase type IVA member 3 (also known as FRL-3) being a preferred neoplastic growth markers are specifically expressed at a higher level in metastatic cancers, compared with advanced and early growth markers are specifically expressed at a higher level in metastatic cancers. The invention also oversypression of the neoplastic growth markers is taken as an indication that the tissue has a propensity to metastaise. The invention also cancer, and for identifying candidate drugs for treating advanced or metastatic cancers. The methods of the invention are useful for identifying candidate drugs for treating advanced or metastasis, or identifying candidate drugs for treating advanced or metastasis, or identifying candidate drugs for treating advanced or metastasis, or identifying candidate drugs for treating advanced or metastasis, or identifying candidate drugs for treating advanced or metastasis, or identifying candidate drugs for treating advanced or metastasis cancers. The invention is particularly applicable to metastasis or identifying and for targeting cytocial cancers. Antibodies which bind to the neoplastic growth marker proteins are additionally useful for diagnostic imaging and for targeting orthogones are experse to human PRL-3 gene (located at chromosome 8q24.3) in an example of the invention of the present sequence represents a reverse invention. 8KGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG

Sequence 20 BP; 3 A; 7 C; 4 G; 6 T; 0 U; 0 Other;

0; Gaps % Match 0.8%; Score 13.6; DB 1; Length 20; Local Similarity 80.0%; Pred. No. 9.3e+02; les 16; Conservative 0; Mismatches 4; Indels Query Match

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ACD42082 standard; DNA; 20 RESULT 1390

ACD42082;

05-SEP-2003 (first entry)

Human, 88, antisense, c-raf, a-raf, b-raf, protein kinase, cancer, signal transduction, cell proliferation, lung carcinoma, cytostatic, antisense gene therapy, chemotherapeutic agent, angiogenesis, hyperproliferative condition, neovascularisation, ocular angiogenesis. Antisense oligonucleotide targeting human c-raf, ISIS5149.

Homo sapiens.

US2003032607-A1

13-FEB-2003

25-JAN-2002; 2002US-00057550 ACD42082/0

IID ACD4.

AC ACD4.

AC ACD4.

AC ACD4.

XXX Butin antipin bype.

XXX ACC ACCO.

XXX ACCO.

31-MAY-1994; 94US-00250856. 31-MAY-1995; 95WO-2007111. 26-MOY-1996; 97US-00888982. 06-UUL-1997; 97US-00888982. 06-UUL-1998; 98WO-US013961. 18-PRB-2000; 2000US-0056073.

(MONI/) MONIA B P.

Monia BP;

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The invention relates to an oligonucleotide 8-50 nucleotides in length which is targeted to mRNA encoding human c-raf, a-raf or b-raf (raf is a protein kinase playing a regulatory role in signal transduction, regulating cell proliferation and has been implicated in lung carcinoma, and which is capable of inhibiting raf expression. Also included is a composition comprising the oligonucleotide and a pharmaceutically acceptable carrier. The antisense oligonucleotide is useful for inhibiting the expression of human raf in human cells or tissues, by contacting the human cells or tissues with the oligo. The oligo. is also is useful for treating or preventing a disease or condition with a chemotherapeutic agent to a human or cells of the human, where the expression of raf by administering it in condition with a chemotherapeutic agent to a human or cells of the human, where the expression of raf by administering and the condition is a neovascularisation (preferably coular angiogenesis or neovascularisation). The oligo, is also useful for inhibiting checking and determining the role of raf expression in various cell functions and abhalological processes and conditions and physiological processes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  present sequence is an antisense oligonucleotide targeting
                                                                                                        Novel antisense oligonucleotide which is targeted to mRNA encoding human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diagnosing conditions associated with raf expression and for research purposes. The present sequence is an antisense oliconucleotide target
                                                                                                                                                                     raf and which is capable of inhibiting raf expression, useful for
treating or preventing hyperproliferative conditions such as cancer.
                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 7; 42pp; English.
WPI; 2003-503332/47.
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0.8%; Score 13.6; DB 1; Length 20; larity 80.0%; Pred. No. 9.3e+02; Conservative 0; Mismatches 4; Indels Seguence 20 BP; 5 A; 4 C; 8 G; 3 T; 0 U; 0 Other; Local Similarity les 16; Conserv Query Match Best Loca Matches

1186 ATGGCCACAGGCCGTCCCCT 1205 20 Ardecrecadecerreacer 1 d ò

ABQ80152 standard; DNA; 20 BP (first entry) 13-JUN-2003 ABQ80152; RESULT 1391 

Right primer DBM0071B amplifies IL4R amplicon of 177 bp.

Human; interleukin 4 receptor; IL4R; type 1; diabetes; allele; insulin dependent diabetes mellitus; IDDM; wyasthenia gravis; PCR; single nucleotide polymorphism; SNP; autoimmune disease; amplify; T helper type 1 mediated disease, rheumatoid arthritis; primer; multiple sclerosis; inflammatory bowel disease; systemic sclerosis; eystemic lupus erythematosus; psoriasis; scleroderma; grave's disease; guillain-Barre syndrome; Hashimoto's thyroiditis; ss.

Homo sapiens

WO2003010335-A2

06-FEB-2003

17-JUL-2002; 2002WO-EP007956.

20-JUL-2001; 2001US-0306912P.

(HOFF ) ROCHE DIAGNOSTICS GMBH. (HOFF ) HOFFMANN LA ROCHE & CO AG F.

Valdez AM; Erlich HA, Bugawan TL, Noble JA, Mirel DB, 

WPI; 2003-248086/24.

comprises detecting Determining an individual's risk for type 1 diabetes, comprises detecting the presence of an insulin dependent diabetes mellitus-associated interleukin 4 receptor allele in a nucleic acid sample of the individual.

Example 4; Page 35; 79pp; English.

The sequences given in ABQ80141-52 represent primers which were used to identify wild type and variant loci in the human interleukin 4 receptor CC (ILAR). These primer sequences were used in the method of the invention of determining an individual's risk for type 1 diabetes. The method comprises detecting the presence of an insulin dependent diabetes comprises detecting the presence of an insulin dependent diabetes comprises (IDDM)-associated interleukin 4 receptor allele in a mucleic acid sample of the individual, where the presence of the allele indicates the individual, where the presence of the allele indicates the individual. Sink for type 1 diabetes. The method identifies one or compressing an individual's risk for any autoimmune disease or condition or individual's risk for any autoimmune disease or condition or any T helper type 1 mediated disease, systemic luptue clerosis, minflammatory bowel disease, systemic luptue correctly providual's risk for any autoimmune disease, systemic correctly myssthemia gravis, gcleroderma, Grave's disease, systemic chyptoiditis

Sequence 20 BP; 8 A; 5 C; 6 G; 1 T; 0 U; 0 Other;

Gaps ó Length 20; 4; Indels 0.8%; Score 13.6; DB 1; 80.0%; Pred. No. 9.3e+02; iive 0; Mismatches 4; Query Match
Best Local Similarity 80.0
Matches 16; Conservative

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GGAGATTCAGCTACAAAAGG 1540 GCAGACTCAGCAACAAGAGG 20 1521

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Gaps

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ACC49159,

ACC49159 standard; DNA; 20 BP ACC49159; ICAM-1 inhibitory antisense oligonucleotide SEQ ID NO:2.

(first entry)

19-JUN-2003

Inhibition, antisense oligonucleotide; phosphorothioate; bioadhesive; enhanced mucosal drug absorption; antiulcer; antinflammatory; cancer; antirheumatic; antiarthritic; cytostatic; ulcerative colitis; tumour; rheumatoid arthritis; Oroh's disease; inflammatory bowel disease; cellular proliferation; ss.

Synthetic.

/note= "phosphorothioate linkages" Location/Qualifiers base= OTHER ซ 50 MOG/ WO2003018134-A2 Key modified\_base 06-MAR-2003.

22-AUG-2001, 2001US-00935316.

22-AUG-2002; 2002WO-US026925.

(ISIS-) ISIS PHARM INC.

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The present invention describes an oral pharmaceutical formulation (I) for delivering a bioreactive macromolecule to a mucosal surface. (I) comprises a first population of carrier particles comprising drug and a bioadhesive compound; and a second population of carrier particles comprising a penetration enhancer. Also described is a method for enhancing the mucosal absorption of the bioactive macromolecule in a mammal (preferably a human) by mucosally administering (I). (I) has antiulcer, antiliflammatory, antirheumatic, antiarthritic and cytostatic activities. (I) can be used for delivering a bioreactive macromolecule to a mucosal surface. It is used for the oral delivery of a drug to an animal encompassing a human as well as other mammals, reptiles, fish, amphibians and birds. It is used to deliver drugs including peptides, proteins, monoclonal antibodies their fragments, nucleic acids (DNA) and RNA), oligonucleotides, antisense oligonucleotides, and small molecules. It can be used to examine the function of various proteins and genes in an animal, including those that are sessential to animal development. It can be used for the treatment of animals that are known or suspected to suffer from any disease treatable with the inventive composition, e.g. ulcerative collits, rheumatod arthitis, crobir s disease, or undue cellular proliferation (cancers and tumours). The present sequence represents an exemplary oligonucleotide from the present invention, which can be used to inhibit ICAM-1
                                                                                    Oral pharmaceutical formulation for delivering bioreactive macromolecule to mucosal surface, contains drug, bioadhesive compound, and penetration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             primer; Vpr; ss; immune response; immunocompromise; HIV; cancer; therapy.
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80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                Hardee GE;
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                Geary RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vpr-driven construct associated primer #39.
                Weinbach SP, Tillman LG,
                                                                                                                                                                  Disclosure; Page 28; 62pp; English.
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                                                    WPI; 2003-342432/32.
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(TANN/) TANNER J.
(ROUX/) ROUX P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
Matches 16; Conserv
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enhancer.
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                  Teng C,
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The invention relates to a DNA or RNA construct capable of expressing interleukin (IL)-2 in a warm-blooded animal or biological preparation, comprising a Vpr activated promoter, a transcribable DNA segment coding for a signal peptide functional in mammary cells and secretory DNA encoding for a signal peptide functional in segment to facilitate secretion of IL-2. The construct is useful for increasing the immune response of a warm-blooded animal or biological preparation, by introducing the construct in stem cells, antigen or presenting cells or immune cell leukocytes, fibroblasts and epithelial cells, of the warm-blooded animal or biological preparation. The warm-blooded animal is an immal or biological preparation. The warm-blooded animal is an immunocompromised patient. The method is useful for stimulating immune response in immunocompromised patients affected with HIV, cancer and other immunocompromised patients. The present sequence represents a Vpressing applayed in the sequence listing but no further reference is made to it
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                                                                                       Novel DNA or RNA construct for increasing immune response of warm-blooded animal, has Vpr activated promoter, DNA segment encoding interleukin 2 and secretory DNA encoding signal peptide functional in mammary cells.
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/note= "Phosphorothioate linkages, all cytosines are
methylcytosine"
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/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides"
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/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides"
16. 20
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                                                                                                                                                                                                                                     Disclosure; Page 15; 28pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in the specification
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ACCOMMENT OF THE PROPERTY OF T
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Gaps ;

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The specification describes a method of analysing DNA or RNA targets. The method comprises contacting the targets with oligonucleotide probes attached to an enzyme cofactor marker which is recognized less by the enzyme when it is on a free oligonucleotide than when it is on a hybridized oligonucleotide. The method is useful for analysing DNA or RNA targets. The invention is used to determine the amount of a target nucleic acid in a biological sample and the level of complementarity between the probe and the target nucleic acid. The present sequence represents an oligonucleotide probe attached to flavin. an enzyme cofactor marker for flavin reductase. The probe, together with its complement ABZ77540, was used to study the activity of flavin reductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Substrates having number of ligands immobilized on predetermined regions of its surface, applicable in gene engineering for studying relationship between structures and biological activity of endocrine disrupters.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   substrate; ligand; signal; ligand binding; immobilisation;
gene engineering; genetic engineering; structure; biological activity;
ligand-receptor binding; PCR primer; amplification; ss.
                                                                                                                                                                                                   Analyzing DNA or RNA targets, useful for determining nucleic acid in a
biological sample, comprises using probes marked by a cofactor for an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
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                                         (COMS ) COMMISSARIAT ENERGIE ATOMIQUE.
(UYFO-) UNIV FOURIER JOSEPH.
                                                                                                             Dueymes C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            226 GAGAGTGGTGGTGGTGGCGG 245
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                                                                                                                                                                                                                                                                                                Example 1; Page 15; 36pp; French.
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16-JUL-2001; 2001FR-00009460.
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Best Local Similarity 80.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16; Conservative
                                                                                                                Fontecave M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (TAKA-) TAKARA BIO INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-290095/28.
                                                                                                                                                         WPI; 2003-270376/27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kato I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2003019199-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-MAR-2003,
                                                                                                             Decout JL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ohmi T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 1396
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to an antisense compound that is targeted to a nucleic acid encoding inhibitor-kappa B kinase-gamma, specifically hybridising to the nucleic acid encoding inhibitor-kappa B kinase-gamma and inhibiting its expression. Compounds of the invention are antisense cligonucleotides comprising at least one modified internucleoside invention are antisense cligonucleotides compromined in kappa on the invention are antisense modety, which is a 2-0-methoxyethyl sugar modety, or at least one modified nucleobase, which is a 5-methylcytosine. Preferably, the modified nucleobase, which is a 5-methylcytosine. Preferably, the invention is useful for preparing a composition for treating a hyperproliferative disorder e.g., cancer, or an autoimmune or hyperproliferative disorder e.g., cancer, or an autoimmune or infinibitor-kappa B kinase-gamma in cells or tissues, and treating an animal having a disease or condition associated with thibitor-kappa B kinase-gamma. Sequences given in ADA44713-ADA44790 represent antisense oligonucleotides for the inhibition of human mRNA levels.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                           New compound having sequence targeted to nucleic acid encoding inhibitor-kappa B kinase-gamma, useful for preparing composition for treating e.g., cancer, or inflammatory or autoimmune disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleotide seguence of a probe for flavin reductase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 2 A; 8 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag= a
/note= "-p-C6flavin attached"
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                                                                                                                                                                                                                                                                                                                                                                                     Example 15; Page 77; 106pp; English
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                                                               03-OCT-2002; 2002WO-US031809.
                                                                                                                06-OCT-2001; 2001US-00972607.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-JUL-2001; 2001FR-00009460.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity 80.0 tes 16; Conservative
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                                                                                                                                                         (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                        Monia BP, Wyatt JR;
                                                                                                                                                                                                                                                 WPI; 2003-457242/43.
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modified_base
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                        17-APR-2003
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ABZ77539;

RESULT 1395 ABZ77539/c

Best Loca Matches

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Gaps ö

4; Indels

The present invention describes a substrate having a number of ligands which have been immobilised onto a predetermined region of its surface, in which the region on the substrate has such a shape as to allow the concentration of signals caused by binding of the ligands to receptors in the region toward the receiver. Also described is a substrate for the immobilisation of such ligands. The substrates are applicable in generaginering for studying relationship between structures and biological activity e.g. effect of endocrine disrupters on various genes and also in investigating the effect of hormones, drugs and other chemicals on the environment. Such substrates are highly sensitive in detecting the ligand-receptor binding, with affinity and reproducibility. The ligandimobilised substrates can be produced in high density e.g. in microarray form to provide finely tuned results. ADA00221 to ADA00282 represent PCR primers used for amplifying genes in the exemplification of the present Sequence 20 BP; 5 A; 5 C; 3 G; 7 T; 0 U; 0 Other; Example 1; Page 33; 52pp; Japanese. invention 

; 0 Length 20; 4; Indels 0.8%; Score 13.6; DB 1; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Local Similarity 80.0 es 16; Conservative Query Match Matches ઠ

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Gaps

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ABZ23813 standard; DNA; 20 BP. RESULT 1397

ABZ23813;

(first entry) 18-MAR-2003

EGFR mRNA inhibiting antisense oligonucleotide AS3.

Epidermal growth factor receptor; EGFR; cytostatic; cancer; EGF antisense; ss.

Synthetic

WO200290514-A2. Homo sapiens.

14-NOV-2002

07-MAY-2002; 2002WO-US014557

07-MAY-2001; 2001US-0289055P.

(HYBR-) HYBRIDON INC.

Agrawal S, Kandimalla ER;

New synthetic oligonucleotide complementary to nucleic acids encoding epidermal growth factor receptor (BGFR), useful for inhibiting the BGFR gene or mRNA expression, and reducing cancer cell proliferation. WPI; 2003-120540/11.

Claim 10; Page 12; 36pp; English.

complementary to a region of nucleic acid encoding epidermal growth factor receptor (EGFR) with location 245-1117, 2407-3201, 3786-4102 or 4574-45633. The methods and compositions of the invention are useful for annancing inhibition of EGFR gene or mRNA expression, and reducing cancer cell proliferation, in particular cancer cells of the colon, ovarian or breast. Sequences ABZ23811-832 represent specific examples of such The invention relates to synthetic antisense oligonucleotides

ö Gaps antisense oligonucleotides that inhibit the EGFR mRNA expression ö 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; 4; Indels Sequence 20 BP; 2 A; 4 C; 7 G; 7 T; 0 U; 0 Other; 0; Mismatches 1553 GGTCTTCGTCGATGCCTGAC 1572 1 Gercingercaarerciege 20 Conservative Local Similarity 16; Query Match Best Loca Matches ខ្លួន្តបូ 셤 ሯ

ABX78149 standard; DNA; 20 BP RESULT 1398 

ABX78149;

16-APR-2003 (first entry)

Murine p38-alpha MAPK antisense oligonucleotide ISIS NO 100812.

p38 mitogen-activated protein kinase; p38 MAPK; phosphorothioate; antisense; antiarthritic; antiinflammatory; kinase inhibitor; mouse; inflammatory disease; rheumatoid arthritis; gene therapy; ss.

Mus musculus

Location/Qualifiers Key modified\_base

1. .20 /\*tag= a /mod\_base= OTHER

(MOE) nucleotides, nucleotides 1-4 & 16-19 are linked via phosphodiester linkages, nucleotides 6-15 are 2'-deoxy, nucleotides, nucleotides 5-16 are linked via phosphorohioate linkages, all C nucleotides are 5-methyl cytosines" /note= "nucleotides 1-5 & 16-20 are 2'-methoxyethoxy (MOE) nucleotides, nucleotides

US6448079-B1

15-AUG-2000; 2000US-00640101.

99US-00286904 06-APR-1999;

(ISIS-) ISIS PHARM INC

Mckay Monia BP, Gaarde WA, Nero P,

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WPI; 2003-089122/08.

New antisense compound, useful for preparing a composition for diagnosing, treating or preventing inflammatory diseases, e.g. rheumatoid arthritis.

Example 5; Col 27-28; 44pp; English.

This invention describes a novel antisense compound, which is 8-30 mucleobases in length targeted to a nucleic acid molecule encoding p38 mitogen-activated protein kinase (MAPK). He products of the invention have antiarthitic and antiinflammatory activity, can act as act as kinase inhibitors. The antisense compound is useful for preparing a composition for diagnosing, treating or preventing inflammatory diseases, e.g. rheumatoid arthritis or for use in antisense gene therapy. This sequence represents an antisense oligonucleotide used in a method to inhibit p38 MAPK

Sequence 20 BP; 6 A; 7 C; 5 G; 2 T; 0 U; 0 Other;

Query Match

DB 1; Length 20; 0.8%; Score 13.6; schultz621-3.rng

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ABT43268;
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                                                                                                                                                                                                                                                             1400
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequences ABZ74952-ABZ74991 represent antisense oligonucleotides targeted to the human p70 S6 Kinase gene, which inhibit its expression. The antisense oligonucleotides were designed to target different regions of the human p70 S6 kinase RNA, and were analysed for their effect on mRNA proved by quantitative real-time PCR. p70 S6 kinase (also known as SK6, p70/p85 s6 kinase, p70/p85 ribosomal S6 kinase and pp70s6k) is a serine-threonine kinase responsible for the phosphorylation of the ribosomal S6
                                                                                                                                                                                                                                                                                                                                                              /note= "Phosphorothioate linkages. When bases 1-5 and 16-20 are not 2'-methoxyethyl (2'-MOB) nucleotides, all cytosines in the oligonucleotide are 5-methylcytosine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel antisense compound which is targeted to nucleic acid encoding p70 S6 kinase, and inhibits expression of p70 S6 kinase, useful for treating a condition associated with p70 S6 kinase, e.g. cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "Optionally 2'-methoxyethyl (2'-MOE) nucleotides.
All 2' MOE cytosines are 5-methylcytosine"
16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'note= "Optionally 2'-methoxyethyl (2'-MOE) nucleotides.
\[ 11 2' MOE cytosines are 5-methylcytosine"
                                                                                                                                                                                                  Human, p70 S6 kinase; SK6; p70/p85 s6 kinase; pp70s6k;
p70/p85 ribosomal S6 kinase; serine-threonine kinase;
ribosomal S6 protein phosphorylation; protein synthesis;
cell cycle progression; immune response; signalling cascade;
cancer progression; lipotoxic disorder; obseity; metabolic disorder;
hyperproliferative disorder; cancer; cycostatic; expression inhibition;
phosphorothioate; antisense oligonucleotide; ss.
              Gaps
                                                                                                                                                                                Human p70 S6 kinase phosphorothioate antisense oligo, SEQ ID NO:21.
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 Pred. No. 9.3e+02;
0; Mismatches 4; Indels
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                                  GACATGTGGGGTGTGGGCTG 1172
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/*tag= b
/mod_base= OTHER
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/mod_base= OTHER
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                                                     dacarcredrererere
                                                                                                                ВР
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80.08;
                                                                                                               ABZ74963 standard; DNA; 20
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 Best Local Similarity 80.0
Matches 16; Conservative
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*tag=
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modified_base
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protein, which in turn stimulates protein synthesis. p70 S6 kinase function is essential for cell cycle progression, and has also been implicated in the regulation of the immune response. p70 S6 kinase is itself activated via phosphorylation, a process influenced by upstream signalling cascades and by hyperinsulinaemia, and may play a role in the progression of colon cancer and in the development of lipotoxic disorders and obesity. The oligonoucleoides of the invention are useful for the prevention and treatment of conditions associated with p70 S6 kinase, such as hyperproliferative disorders such as cancer, and metabolic disorders. They are also useful in research and diagnostics for modulating the expression of p70 S6 kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention comprises DNA sequences that show enhanced expression in human neuroblastoms with good prognosis. The DNA sequences of the invention are useful in clarifying good/poor prognosis of neuroblastoms. The present DNA sequence was used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acids isolated from neuroblastoma showing enhanced expression in human neuroblastoma with good prognosis, useful in clarifying good/poor prognosis of neuroblastoma and providing genetic data.
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80.0%; Pred. No. 9.3e+02;
iive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.38+02;
tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 1 A; 11 C; 3 G; 5 T; 0 U; 0 Other;
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HISAMITSU PHARM CO LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-MAY-2001; 2001JP-00163666.
24-AUG-2001; 2001JP-00255260.
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Best Local Similarity 80.0°
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16; Conservative
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unidentified.
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ABQ80265;
                     Zhao M;
RESULT 1401
ABQ80265/c
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PCR; nervous system; platelet-derived growth factor; PDGF; psychosis; vascular endothelial growth factor; VBGF; neural; stem cell; memory; progenitor cell; neurodegeneration; ischaemia; neurological trauma; neuropsychiatry; learning; Parkinson's disease; Huntington's disease; Amyotrophic Lateral Sclerosis; spinal ischaemia; lachaemic stroke; spinal cord injury; cancer-related; schizophrenia; Alzheimer's disease; depression; anxiety; phobia; stress; cognitive function; aggression; anxiety; phobia; stress; cognitive function; aggression; seasonal mood disorder; personality disorder; cerebral palsy; primer; multi-infarct; dementia; Lewy body; age related; geriatric; growth; epilepsy; brain injury; multiple sclerosis; autism; differentiation; attention deficit disorder; narcolepsy; amplify; ss. Use of platelet-derived growth factor, vascular endothelial growth factor, or their modulators for modulating neural stem cell or neural progenitor cell activity, particularly for treating e.g. Alzheimer's, Plate K, Schanzer A, Wachs F; Example 11; Page 77; 119pp; English. Kuhn GH. 19-SEP-2001; 2001US-0323381P. 28-SEP-2001; 2001US-0326044P. 19-SEP-2002; 2002WO-IB003998 ABQ80265 standard; cDNA; 20 (first entry) Delfani K, Janson AM, (NEUR-) NEURONOVA AB WPI; 2003-354563/33 ischemia or stroke. WO2003024478-A1. #2 FLT-4 primer 27-JUN-2003 Homo sapiens 27-MAR-2003.

The sequences given in ABO80256-69 are primers which were used to identify the presence of vascular endothelial growth factor (VBGP), or the VBGF receptors, FIK1, FIT-1 and FIT-4 in human stem cells (BSC). The method of the invention for alleviating or reducing a symptom of a disease or disorder of the nervous system comprises administering prowth factor (VBGP), a combination of PDGF and VBGF, or a PDGF or VBGF agonist, to a post or modulate neural stem cell or neural progenitor cell activity in vivo. The method is useful for alleviating or reducing the symptoms of a disease or disorders of the nervous system, e.g. neurodegenerative disorders, neural stem cell disorders, neural progenitor disorders, ischemenic disorders or learning or reducing the symptoms of a disease and disorders or learning and memory disorders, neuropsychiatric disorders or learning and memory disorders, neuropsychiatric disorders or learning and memory disorders, spinal sord injury or cancer-related brain/ spinal cord injury or cancer-related brain spinal cord injury or cancer-related brain spinal cord injury or cancer symptomes, se

10-OCT-2001; 2001US-00973827.

(ISIS-) ISIS PHARM INC

Cowsert LM;

Monia BP,

WPI; 2003-381663/36.

New antisense oligonucleotides for modulating CREB (CAMP response element binding protein) gene expression, useful for preventing or treating e.g. cancers, a disease arising from aberrant apoptosis, or neuronal

Claim 3; Page 74; 91pp; English

disorders.

ö dementia, epilepsy and injury related to epilepsy, spinal cord injury, brain injury, tramma related brain/spinal cord injury, infection and inflammation related brain/spinal cord injury, infection and inflammation related brain/spinal cord injury, environmental toxin related brain/spinal cord injury, multiple sclerosis, autism, attention deficit disorders, narcolepsy or sleep disorders. The pDGF and/or VEGF, is useful in the manufacture of a medicament for alleviating or treating these diseases or disorders, accelerating growth of neural stem cells or neural progenitor cells, or inducing proliferation or differentiation of these cells. This primer gives an estimated band size of 378 bp Human; CREB; cAMP response element binding protein; CREB1; bZIP; basic leucine zipper; transcription factor; intracellular signalling; spermatogenesis; circadian rhythm; memory; apoptosis; hyperproliferative disorder; cancer; tumour; blood; soft tissue; hyperproliferative disease; neuronal disorder; chromosome 2032.3-34; cytostatic; neuroprotective; expression inhibition; phosphorothioate; antisense oligonucleotide; ss. and 3' ends, Gaps /note= "This oligonucleotide has a phosphorothioate backbone with all cytosine residues being 5-methylcytosines. Optionally, it also has 2-methylcytosines. Optionally it also has 2-wethyoxyethyl (2'-MOE) wings at the 5' and 3' ends which are 5 nucleotides in length." Human CREB phosphorothioate antisense oligonucleotide, SEQ ID NO:29. ; 0 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; rative 0; Mismatches 4; Indele Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other; Location/Qualifiers 514 CTGGAGAGCTGACCCTCAA 533 /mod\_base= OTHER 20 CTGGTGAAGCTGCCCGTGAA 1 ACF33771 standard; DNA; 20 BP. 07-OCT-2002; 2002WO-US032181. 24-SEP-2003 (first entry) 16; Conservative /\*tag= Query Match Best Local Similarity WO2003030617-A2 modified base Homo sapiens 17-APR-2003. ACF33771; RESULT 1402 Matches 88888888888888888 ò 유

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The invention relates to antisense oligonucleotides (ACF33752-ACF33779)
targeted to the human CREB (cAMP response element binding protein) gene,
which inhibit its expression. The oligonucleotides were designed to
target different regions of human CREB mRNA, and were analysed for their
effect on CREB expression by quantitative real-time PCR. CREB (also known
as CREB1) is a member of the basic leucine zipper (bZIP) family of
transcription factors, and activates transcription of target genes in
response to a diverse array of stimuli including peptide hormones, growth
actors and protein kinases. It is a component of intracellular
captors and protein kinases. It is a component of intracellular
signalling spermatogenesis, circadian rhythms and memory. Overexpression
of CREB has been found to induce apoptosis in certain cells, although
CREB overexpression may also be linked to cancer as it is constitutively
activated in human somatotroph adenomas. CREB may also play a role in the
development of drug dependency, as it has been found to mediate morphine-
induced upregulation of the CAMP pathways that contribute to opiate
dependency. The oligonucleotides of the invention are useful for
diagnosis, prevention and treatment of CREB-related disorders, such as
hyperproliferative disorders (particularly cancer, e.g., those of blood
and soft tissue), diseases or conditions arising from aberrant apoptosis,
or neuronal disorders. The present sequence represents a human H-ras
phosphorchioate antisense oligonucleotide used as a positive control in
iterative determining optimal oligonucleotide concentration for a particular cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nucleic acids having higher expression in human neuroblastoma with poor prognosis for diagnostic prediction of neuroblastoma prognosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention comprises nucleic acids that show increased expression in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Neuroblastoma; prognosis; spontaneous regression; primer; probe; ds; high malignancy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
iive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Neuroblastoma-related oligonucleotide #157.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      294 TICTGCACGGGCCCCACTCA 313
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(HISM ) HISAMITSU PHARM CO LTD.
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24-AUG-2001; 2001JP-00255226.
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Best Local Similarity 80.0°
Matches 16; Conservative
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human neuroblastomas with poor prognosis over those with a good prognosis. The nucleic acids of the invention are useful as a tool for distinguishing neuroblastomas with a favourable prognosis (spontaneous regression) from neuroblastomas with a poor prognosis (high malignancy) The DNA sequences ABT32224 - ABT32571 represent oligonucleotides used i
                                                                                                                                                                                                                                                                                                                                                                                                     BCL2-associated X; BAX; nootropic; neuroprotective; antiparkinsonian; anticonvulsant; ophthalmological; antidiabetic; virucide; antisense therapy; BAX antagonist; BAX inhibitor; familial amylotrophic lateral sclerosis; Alzheimer's disease; Parkinson's disease; cartilage-hair hyperplasis; diabetes-associated ocular disorder; scrapie infection; aberrant apoptosis; human; phosphorothioate; ss.
                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                           Human BAX chimeric phosphorothicate oligonucleotide SEQ ID NO:27.
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                                                                                                                           0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
                                                                                                 Sequence 20 BP; 7 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   residues are 5-methylcytidines
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/mod_base= OTHER
/note= "2'-O-methoxyethyls"
16. .20
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/note= "2'-O-methoxyethyls"
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                                                                                                                                                                                     316 TCTGCACCAGAGATTGTGCA 335
                                                                                                                                                                                                         1 TCTGCACCAGAGAATCCACA 20
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                                                                                                                                                                                                                                                                                        ADA20854 standard; DNA; 20
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Best Local Similarity 80.05
Matches 16; Conservative
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*tag=
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modified_base
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                                                                                                                                                                                                                                                                                                                                               20-NOV-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                    ADA20854;
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ADA20854/
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Example 15; Page 85; 139pp; English. 

The present invention describes a compound (1) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding BCL2-associated X (BAX) protein, where the compound specifically hybridises with the mucleic acid molecule encoding BAX protein. The compound specifically hybridises with at least 8-nucleobase portion of an active site on a nucleic acid molecule encoding BAX protein. Also described: (1) a composition comprising (7) and a pharmaceutical carrier or diluent; (2) inhibiting the expression of BAX protein in cells or tissues comprising contacting the cells or tissues with (1); and (3) treating an animal having a disease or condition associated with BAX protein comprising contacting to the animal (1) so that expression of BAX protein is inhibited. (1) has nootropic, neuroprotective, antiparxinsonian, anticonvulsant, ophichalmological, antidiabetic and virtibaxinsonian, anticonvulsant, ophichalmological, antidiabetic and virtical activities, and can be used in antisense therapy, and as a BAX antagonist. The antisense compounds (1) are useful for modulating the expression of BAX protein, and for treating a disease or condition associated with BAX protein, and for treating a disease or condition associated with BAX protein, e.g. familial amylotrophic lateral schedular hyperplasia, diabetes-associated ocular disorders or screnis infection, or a condition that arises from aberrant apoptosis. The present sequence represents a human BAX chimeric phosphorothhoate present invention.

Sequence 20 BP; 2 A; 8 C; 7 G; 3 T; 0 U; 0 Other;

77 GAGGGCCCCGCGCGCTCTGAG 96 ⋩

20 GGGGGCCCACCAGCTCTGAG 1

ADA20960 standard; DNA; 20 BP. ADA20960; MA20960

20-NOV-2003

BCL2-associated X; BAX; nootropic; neuroprotective; antiparkinsonian; anticonvulsant; ophthalmological; antidiabetic; virucide; antisense therapy; BAX antisense therapy; BAX inhibitor; familial amylotrophic lateral sclerosis; Alzheimer's disease; Parkinson's disease; Hodgkin's disease; cartilage-hair hyperplasia; abstra-associated ocular disorder; scrapie infection; aberrant apoptosis; mouse; phosphorothioate; ss.

Synthetic

Mus musculus

/note= "phosphorothioate linkages, and all cytidine residues are 5-methylcytidines" Location/Qualifiers /\*tag= b /mod\_base= OTHER Key modified\_base

modified base

/\*tag= c /mod\_base= OTHER /note= "2'-0-methoxyethyls"

Gaps ö Query Match 0.8%; Score 13.6; DB 1; Length 20; Best Local Similarity 80.0%; Pred. No. 9.3e+02; Matches 16; Conservative 0; Mismatches 4; Indels

RESULT 1405 

(first entry)

Mouse BAX chimeric phosphorothioate oligonucleotide SEQ ID NO:133.

/mod\_base= OTHER /note= "2'-0-methoxyethyls" 16. .20 ...5 \*tag= a nodified base

WO2003008543-A2 

13-JUL-2002; 2002WO-US022417.

17-JUL-2001; 2001US-00908147. (ISIS-) ISIS PHARM INC

Zhang H, Watt AT;

WPI; 2003-239321/23.

New antisense compounds, useful for modulating the expression of BCL2-associated X (BAX) protein or for treating a disease or condition associated with BAX protein, e.g. Parkinson's disease, Hodgkin's disease or Alzheimer's disease

Example 17; Page 94; 139pp; English

The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding BCI2-associated X (BAX) protein, where the compound specifically hybridises with the nucleoca acid molecule encoding BAX protein and inhibits the expression of BAX protein. The compound specifically hybridises with at least 8-nucleobase portion of an active site on a nucleic acid molecule encoding BAX protein. The composition comprising (I) and a pharmaceutical carrier or diluent; (2) inhibiting the expression of BAX protein in cells or tissues comprising contacting the cells or tissues with (I); and (3) treating an animal having a disease or condition associated with BAX protein is inhibited. (I) has nootropic, neuroprotective, antiparkinsonian, anticonvilsant, ophthalmological, antidiabetic and virtode activities, and can be used in antisense therapy, and as a BAX antiagonist, the antisense compounds (I) are useful for modulating the expression of BAX protein, and for treating a disease or condition associated with BAX protein, and for treating a disease or condition associated with BAX protein, e.g. familial amylotrophic lateral expression of BAX protein, e.g. familial amylotrophic lateral cartiage-hair hyperplasia, diabetes-associated coular disorders or scrapie infection, or a condition that arises from aberrant apoptosis. The present sequence represents a mouse BAX chimeric phosphorothioate present invention.

Seguence 20 BP; 5 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Gabe 0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; tive 0; Mismatches 4; Indels Query Match
Best Local Similarity 80.0
Matches 16; Conservative

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ACF39671 standard; DNA; 20 BP. RESULT 1406 ACF39671 

ACF39671;

(first entry) 29-SEP-2003 MHC class II transactivator antisense oligonucleotide SEQ ID NO:74.

Human, major histocompatibility complex class II transactivator;
MHC class II transactivator; antisense modulation; immunosuppressive;
antimicrobial; antidiabelic; antifheumatic; antiarthritic; cytostatic;
nootropic; neuroprotective; immunostimulant; autoimmune disorder;
MHC Class II transactivator inhibitor; infection; transplant rejection;
diabetes; rheumatoid arthritis; cancer; Alzheimer's disease;
multiple sclerosis; severe combined immunodeficiency disease;

AAL61864 standard; DNA; 20 BP.

RESULT 1407 **AAL**61864

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The present invention describes a compound (1) that is 8-50 nucleobases in length: (a) targets a nucleic acid molecule encoding major histocompatibility complex (MHC) class II transactivator, and inhibits the expression of MHC class II transactivator, and inhibits the expression of MHC class II transactivator. Complex (MHC) specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding MHC class II transactivator. (I) has immunosuppressive, antimicrobial, antidiabetic, antirheumatic, antiarthrities, and can be used as an MHC class II transactivator inhibitor. The MHC class II transactivator and immunostimilar activities, and can be used as an integense oligonuclectides can be used for treating an animal having a disease or condition associated with MHC class II transactivator, e.g. autoimmune disorder or infection. The antisense oligonuclectides can be used for inhibiting the expression of MHC class II transactivator in cells or tissues. In particular, these diseases include transplant celection, diabetes, heumatoid arthritis, cancer, Alzheimer's disease, multiple sclerosis, or severe combined immunodeficiency disease. The mitisense compounds are useful for diagnostics, prophylaxis, or as research reagents an example from the present invention converse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New antisense oligonucleotides for modulating MHC class II transactivator gene expression, particularly useful for treating autoimmune disorders such as transplant rejection, Alzheimer's disease, or multiple sclerosis,
                                                                                                                              /*tag= a
/mod_base= OTHER
/mod_e= "phosphorothioate linkages; all cytidine residues
are 5-methylcytidines"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 6 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
 phosphorothioate; antisense oligonucleotide; ss.
                                                                                                                                                                                                                                   /mod_base= OTHER
/note= "2'-0-methoxyethyls"
16. .20
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/mod_base= OTHER
/note= "2'-0-methoxyethyls"
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                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                      04-DEC-2002; 2002WO-US038616.
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                                                                                                         *tag=
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                                                                                                     modified_base
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                                     Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                  19-JUN-2003
                                                         Synthetic
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The invention relates to antisense compounds targetted to the nucleic acid encoding the G protein-coupled receptor ETBR-LD-2 (endothellin type b racid encoding the G protein-2) to inhibit its expression. ETBR-LD-2 is also known as endothelin-binding receptor-like protein-2, ETBR-LIke protein 2 and G-protein coupled receptor 37 like 1 (6FB2ALI). Antisense compounds of the invention are useful for treating hyperproliferative disorders (especially cancer) and cardiovascular diseases especially angiogenesis, attrocederosis, hypertension, cerebral vascular disease, stroke and acute proliferative nephropathy. The present sequence is an antisense oligonucleotide targetted to human ETBR-LD-2 DNA
                                                                                                                 Human, G protein-coupled receptor; hyperproliferative disorder; GPR37L1; endothelin type b receptor-like protein-2; cerebral vascular disease; antisense; endothelin-binding receptor-like protein-2; atherosclerosis; cardiovascular disease; ETRR-LP-2; G-protein coupled receptor 37 like 1, acute proliferative nephropathy; ETBR-like protein 2; cancer; stroke;
                                                                                                                                                                                                                                                                                                                                        /*tag= a /*tag= OTHER /mod_bage= OTHER /note= "Phosphorothioate backbone; All cytidine residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New oligonucleotides which bind the nucleic acid encoding the G protein coupled receptor BTBR-LP-2 (endothelin type b receptor-like protein-2 receptor), useful for treating e.g. cancer and cardiovascular diseases.
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/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOS) nucleotides"
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/note= "2'-methoxyethyl (2'-MOE) nucleotides"
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                                                                                  Human ETBR-LP-2 antisense oligonucleotide ISIS #204290.
                                                                                                                                                                                                              angiogenesis; hypertension; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 7 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 3; Page 80; 106pp; English.
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                                                 22-SEP-2003 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Monia BP, Freier SM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-558997/52.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO2003050244-A2.
                                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                                                                                              modified base
                                                                                                                                                                                                                                                 Homo sapiens.
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                                                                                                                                                                                                                                                                   Synthetic.
             AAL61864;
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0; Gaps

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Best Local Similarity 80.0 Matches 16, Conservative

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The invention relates to antisense compounds targetted to the nucleic acid encoding the G protein-coupled receptor FTBR-LB-2 (endothelin type b receptor-like protein-2) to inhibit its expression. FTBR-LB-2 is also known as endothelin-binding receptor-like protein-2, ETBR-Like protein 2 and G-protein coupled receptor 37 like I (GRR3TLI). Antisense compounds of the invention are useful for treating hyperproliferative disorders (especially cancer) and cardiovascular diseases especially angiogenesis, attrocelerosis, hypertension, cerebral vascular disease, stroke and acute proliferative nephropathy. The present sequence is an antisense oligonucleotide targetted to human ETBR-LP-2 DNA
                                                                                                                                                                                                                                             Human, G protein-coupled receptor; hyperproliferative disorder; GPR37L1; endothelin type b receptor-like protein-2; cerebral vascular disease; antisense; endothelin-binding receptor-like protein-2; atherosclerosis; cardiovascular disease, ETBR-LP-2; G-protein coupled receptor 37 like 1; acute proliferative nephropathy; ETBR-like protein 2; cancer; stroke; anglogenesis; hypertension; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "Phosphorothioate backbone; All cytidine residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New oligonucleotides which bind the nucleic acid encoding the G protein coupled receptor ETBR-LP-2 (endothelin type b receptor-like protein-2 receptor), useful for treating e.g. cancer and cardiovascular diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides"
16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides"
                                                                                                                                                                                                                  Human ETBR-LP-2 antisense oligonucleotide ISIS #204289.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
1. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 15; Page 80; 106pp; English
1049 GAGCCAAGTCAATCCCAACA 1068
                   1 GAACCAAGTCCATCCCTAGA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    base= OTHER
                                                                                                                  BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          04-DEC-2002; 2002WO-US038520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-DEC-2001; 2001US-00003126
                                                                                                                  AAL61863 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          U
                                                                                                                                                                                  (first entry)
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/mod_ba
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Freier SM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-558997/52.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2003050244-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                    modified base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modified base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modified base
                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                  22-SEP-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                  AAL61863;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory diseases, such as psorianis, eczema, allergic context dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease. This sequence represents an immunostimulatory nucleic acid
                                    Gaps
                                                                                                                                                                                                                                                                                                                          Immunostimulatory, antiinflammatory, dermatological, antipsoriatic, antiulcer; gene therapy, vaccine, non-allergic inflammatory disease, psoriasis; eczema; allergic contact dermatitis; latex dermatitis; lafiammatory bowel disease, ulcerative colitis; Crohn's disease, se.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Treating non-allergic inflammatory diseases, such as psoriasis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
 Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
0.8%; Score 13.6; DB 1;
80.0%; Pred. No. 9.3e+02;
ative 0; Mismatches 4;
                                                                                                                                                                                                                                                                                           Immunostimulatory nucleic acid #235.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 15; 229pp; English.
                                                                    1052 CCAAGTCAATCCCAACAAAG 1071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             555 CCTCAGCCGCCGCCTCCGTC 574
                                                                                                   20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20 ccecceccecceccecce 1
                                                                                                   1 ccaagrecareceragacae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADA15368 standard; DNA; 20 BP.
                                                                                                                                                                                        ACD99549 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-MAR-2002; 2002US-00112653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-MAR-2001; 2001US-0279642P
                                                                                                                                                                                                                                                          25-SEP-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 80.0
Matches 16; Conservative
Query Match
Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-521815/49.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Krieg AM, Berg DJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (KRIE/) KRIEG A M. (BERG/) BERG D J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2003050268-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13-MAR-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                           ACD99549;
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ADA15368/c
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06-NOV-2003 (first entry)
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Mouse; PCR; primer; ss; HYPLIP1; FCHL1; variation; lipid disorder; allele; anti-lipid disorder; anti-cancer therapy; gene therapy; familial combined hyperlipidaemia; coronary artery disease; atherogenic lipoprotein phenotype; hyperapobetalipoproteinaemia; hypertriglyceridaemia; low density lipoprotein subclass B; LDL; familial dyslipidemic hypertension; syndrome X; hypercholesterolaemia; obesity; insulin resistance; cancer; cytostatic; antilipaemic; hypotensive; anorectic. Mouse HYPLIP1 locus PCR primer #308.

Mus sp.

US2003064372-A1.

03-APR-2003.

07-SEP-2001; 2001US-00949428.

22-JUN-2000; 2000US-0213322P.

BODNAR J S.
CASTBLLANI L W
CHATTERJEE A.
JONG P D.
LUSIS A J.
OHMEN J.
ROSS D.
TAFURI S. (CHAT/)
CHATTE
(JONG/) JONG P
(LUSI/) LUSIS
(OHMEN) OHMEN
(ROSS)
(TAFU/) TAFURI
(WUCC/) WU C. (BODN/) (CAST/)

Chatterjee A, Jong PD, Lusis AJ; Wu C; Bodnar JS, Castellani LW, C Ohmen J, Ross D, Tafuri S,

WPI; 2003-540780/51

Novel isolated polynucleotide comprising a mouse or human familial combined hyperlipidemia 1 gene having a variation that is associated with a lipid disorder, useful for identifying susceptibility to the lipid

Claim 11; Page 40; 63pp; English.

The invention discloses isolated polymucleotides comprising mouse HYPLIPI CDNA sequence, mouse HYPLIPI genomic DNA, or the homologous human channed mouse HYPLIPI genomic DNA, or the homologous human considered mouse HYPLIPI genomic DNA, or the homologous human considered mouse HYPLIPI and the sequence is associated with a lipid disorder. Also claimed is an isolated polyperlipidation of fully defined human FCHL1 amino acid sequence, or a variant form of a fully defined human FCHL1 amino acid sequence, where the variant form of a fully defined human FCHL1 amino acid sequence, where the variant is associated with the lipid disorder. The variation position, an isolated polypeptide comprising 4 contiguous amino acids of the encode polypeptides, where the 4 contiguous amino acids of the encode polypeptides, where the 4 contiguous amino acids of the variation position, a kit for the detection of the FCHL1 locates span the variation position, a kit for the detection of the FCHL1 cloud sequence of the difference between the suspected allele and the wild-type sequence the difference between the suspected allele and a transagenic animal which carries an altered HYPLIPI or FCHL1 mucleotide sequence and a paramaceutical composition. Also disclosed is a transagenic animal which carries an altered HYPLIPI or FCHL1 allele and a method for screening drugs for inhibition or restoration of FCHL1 gene function as an antimal and antibodies are useful for treating or preventing (e.g. gene therapy) a lipid disorder associated with expression of FCHL1, for diagnosis or prequence in a land disorder second and a method for screening a lipid disorder second and propertion and antibody areary disease, atherogenic lipoportein phenomy, leading and occupant areary disease, atherogenic lipoportein and hyperingly perintiply correctly a propertic lipoporteinaemia, hypertriglycetide mineral lipoporteinaemia, hypertriglycetide mineral lipoporteinaemia, hypertriglycetide mineral lipoporteinaemia, hyperspecial correct and for correct lipoporteinaem

The present invention relates to a method of inducing differentiation of mammalian embryonic stem cells into functioning cells, which comprises culturing embryonic stem cells in a medium comprises judicated basic fibroblast growth factor. In particular, the invention relates to the differentiation of mammalian embryonic stem cells. The method is useful for inducing differentiation of mammalian embryonic stem cells. The method contribution disorders in pancreatic function, and in nerve function. The cells are pancreatic islet like cell clusters and nerve function. The relatest pancreatic function, and in nerve function method may be used for treating disorders in pancreatic islet function (e.g. Alzheimer's disease and creutzfeldt-Jakob disease) or spinal cord disorders. The functioning cells are useful not only for cell transplant therapy, but for in vitro screening of various new drugs which affect or restore islet or nerve function, and for safety evaluation of new drugs. The present sequence is a PCR primer used in the exemplification of the invention

BP; 5 A; 6 C; 4 G; 5 T; 0 U; 0 Other;

Sequence 20

Inducing differentiation of mammalian embryonic stem (ES) cells into functioning cells, for treating e.g. diabetes, comprises culturing ES cells in a medium containing leukemia inhibitor factor and basic fibroblast growth factor.

Example 5; Page 67; 70pp; English.

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lipoprotein (LDL) subclass B, familial dyslipidemic hypertension, syndrome X, hypercholesterolaemia, obesity, insulin resistance and cancer. The sequence presented is a PCR primer which was used to amplify part of the mouse HYPLIP1 locus.
                                                                                         Gaps
                                                                                          ;
                                                                                                                                                                                                                                                          Embryonic stem cell; ES cell; mouse; differentiation; nerve or
pancreatic islet cell; cell transplant therapy; antidiabetic;
neuroprotective; nootropic; PCR; primer; ss.
                                                                     Score 13.6; DB 1; Length 20; Pred. No. 9.3e+02;
                                                                                        4; Indels
                                                  Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                         Murine embryonic cell line Ptc PCR primer #1.
                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                  (OKUM-) OKUMA CONTACTLENS KENKYUSHO YG. (INOU/) INOUE K.
                                                                                                                                                                                                                                                                                                                                                                                                                                Inoue K, Kim D, Gu Y, Ishii M;
                                                                                                           16 GGATGGACAGGAATGCAGAG 35
                                                                                                                            20 GGATGGAGAGGCATCCTGAG 1
                                                                      0.8%;
                                                                                                                                                                                                                                                                                                                                                                                 25-JAN-2002; 2002US-00054789.
                                                                                                                                                                                                                                                                                                                                                             27-JAN-2003; 2003WO-JP000699
                                                                                                                                                                               ACF04246 standard; DNA; 20
                                                                                                                                                                                                                      (first entry)
                                                                               Local Similarity 80.0
les 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-598750/56.
                                                                                                                                                                                                                                                                                                                      WO2003062405-A2.
                                                                                                                                                                                                                      06-NOV-2003
                                                                                                                                                                                                                                                                                                                                           31-JUL-2003.
                                                                                                                                                                                                   ACF04246;
                                                                      Query Match
                                                                                                                                                           RESULT 1411
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                                                                                         Matches
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Gaps

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4; Indels

Pred. No. 9.3e+02; 0; Mismatches

80.08;

16; Conservative

Best Local Similarity Matches 16: Conserv

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Gaps

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The invention discloses a method for amplifying expressed genetic sequences from genomic DNA (gDNA) from mammalian or higher order plant species. The method involves identifying a 3' untranslated region (UTR) of a gDNA sequence, designing probe, performing a second PCR to amplify the predetermined sequence. Also claimed is a biological analysis device, comprising a substrate and an array of set of expressed genetic sequences, located on the substrate, which are generated by the method above and a DNA high-density microarray comprising a substrate upon which are deposited an array of blosites of genomic DNA fragments having the sequence of at least one exon, and absent polyadenine and vector sequences, where the genomic DNA fragments have a sequence length of from about 75-200 nucleotides. The method is efficient for amplifying gene captures, enables large-scale production of gDNA sequence, generates large quantities of gDNA probes, which enables greater efficiency for printing in microarray formats, fabricates high-density DNA arrays of enhanced, widely varying genetic content and abstains from using RNA-derived sequences by simple PCR amplifications without cloning. The method produces amplified sequences that have greater specificity and size consistency than that observed with cDNA fragments, and allows for greater signal sensitivity than oligonucleotides. The sequence presented is a Type II gene specific primer
                                                                                                                                                                                                                                                                                                                                                                     PCR; primer; ss; genomic DNA; gDNA; untranslated region; UTR;
DNA high-denaity microarray; biosite; large scale production; gDNA probe;
microarray; Type II primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Amplifying expressed genetic sequences from genomic DNA of mammalian or higher order plant species for printing on DNA microarrays, involves using the 3' untranslated region of the gene sequence.
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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02; ive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                Sense PCR primer used to amplify USP15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure, Page 8; 15pp; English.
                                                                               614 CCTACATTAAGCTGGACAAA 633
                                                                                                               1 CCTCCTTTACGGTGGACAAA 20
                                                                                                                                                                                                           607/c
ACH66607 Btandard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-OCT-2001; 2001US-00972469.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-OCT-2001; 2001US-00972469.
                                                                                                                                                                                                                                                                                                       (first entry)
Query Match
Best Local Similarity 80.0°
Matches 16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US2003073085-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (LAIF/) LAI F.
(ZHOU/) ZHOU D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lai F, Zhou D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                         16-0CT-2003
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The invention describes an isolated polypeptide (I) comprising a variant form of a mouse HYPLIPI polypeptide sequence (S1) or a human FCHLI polypeptide sequence (S1) or a human FCHLI polypeptide sequence (S1) or a mainto acid sequence the variant form is associated with cancer, or an amino acid sequence having at least 65 % sequence identify to (S1) or (S2). A composition comprising the expression of FCHLI. FCHLI gene or HYPLIPI gene and its product are useful for the study of metabolic pathway and cellular mechanism to identify other genes, receptors and relationships that contribute to lipid disorder and cancer. FCHLI gene or its fragments are useful in gene the reatment of lipid disorder or cancerous cells. The sequence the treatment of lipid disorder or cancerous cells. The sequence variation of FCHLI gene or HYPLIPI gene is also useful in the disgnosis and prognosis of predisposition to lipid disorder and cancer. Antisense polymuclectide sequences are useful in preventing or diminishing the expression of HYPLIPI or mouse HYPLIPI gene.
                                                                                                                                                                                                                                  cytostatic, antilipemic; gene therapy; peptide therapy; HYPLIPI; FCHLI; cancer; metabolic pathway; cellular mechanism; lipid disorder; familial combined hyperlipidaemia; mouse; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel human FCHLI or mouse HYPLIPI polypeptide, useful for drug screening, peptide therapy of lipid disorder or cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lusis AJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jong PD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chatterjee A,
Wu C;
742 ACCGCCATCCGGGAAGTGTC 761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 11; Page 38; 56pp; English.
                            20 ACCACCAGCAGGAAGTGTC 1
                                                                                             930/c
ADB95930 standard; DNA; 20 BP.
                                                                                                                                                                                                    Mouse HYPLIP1 PCR primer #308.
                                                                                                                                                                                                                                                                                                                                                                                          07-SEP-2001; 2001US-00949427.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Castellani LW, C
oss D, Tafuri S,
                                                                                                                                                                                                                                                                                                                                                                                                                          08-SEP-2000; 2000US-0231322P.
                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                      BODNAR J S.
CASTELLANI L W
CHATTERJEE A.
JONG P D.
LUSIS A J.
OHMEN J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-695901/66.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ROSS D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ROSS D.
TAFURI S.
                                                                                                                                                                                                                                                                                                                              US2003054418-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (OHME/) OHMEN
(ROSS/) ROSS I
(TAFU/) TAFURI
(WUCC/) WU C.
                                                                                                                                                                    04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                              20-MAR-2003.
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                                                                                                                                       ADB95930;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (CHAT/)
(JONG/)
(LUSI/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                      (BODN/)
(CAST/)
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0.8%; Score 13.6; DB 1; Length 20;

Query Match

0.8%; Score 13.6; DB 1; Length 20;

Query Match

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schultz621-3.rng

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The invention discloses a polynucleotide comprising a sequence selected from 1970 fully defined nucleotide sequences which encode novel polypeptides. Also claimed is a polypeptide encoded by the polynucleotide, a manibody binding to the polypeptide or peptide or its partial peptide, an antibody binding to the polypeptide or peptide of the polynucleotide by contacting the polypeptide or peptide with the antibody of the encoded by contacting the polypeptide or peptide with the antibody of the encoded by contacting the polypeptide or peptide with the antibody of the encoded by contacting the polynucleotide in an expressible manner and an antisense polynucleotide, or as a probe for detecting the polynucleotide. The polynucleotide, or as a probe for detecting the polynucleotide. The polynucleotide and encoded is useful as parimer for synthesising the polynucleotides and encoded proteins are useful as pharmaceutical agents and many diseaser-related genes may be included in them, for developing a diagnostic marker or medicines for regulation of their expression and activity, or as targets of gene therapy. The genes are involved in tissue and/or cell respensation. Membrane proteins, signal transduction-related proteins, respense for diseases (e.g. osteoporosis, renocing them can be used as indicators for diseases (e.g. osteoporosis, neurological diseases, cancer, tumours. The cDNA may be used to regulate the activity or expression of the encoded protein to treat diseases. The sequence presented is clone specific PCR primer which was used in the sequence data for this patent is not represented in the printed sequence data for this patent is not represented in the printed sequence information supplied by the
                                                                                                                                                                                                                                                                                                                                                                                                                           Otsuki T, Wakamatsu A, Sato H, Ishii S;
Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
Otsuka M, Nagahari K, Masuho Y;
cell regeneration, membrane protein; signal transduction-related protein;
transcription-related protein; osteoporosis; neurological disease;
cancer; tumour; primer; PCR; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polynuclectides and polypeptides, useful for developing a diagnostic marker or medicines for regulation of their expression and activity, or as targets of gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .<del>.</del>
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80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 8; Page 129; 222pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               154 CIGICAAIGACACICCGAGG 173
                                                                                                                                                                                                                                                                                                                                                          (HELI-) HELIX RES INST.
(REAS-) RES ASSOC BIOTECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          crercacreacrercectree 1
                                                                                                                                                                                                                                         28-MAR-2002; 2002EP-00007401.
                                                                                                                                                                                                                                                                                      05-NOV-2001; 2001JP-00379298.
25-JAN-2002; 2002US-00350978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADC65807 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          European Patent Office.
                                                                                                                                                                                                                                                                                                                                                                                                                           Sugiyama T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Yamamoto J, Isono Y,
Seki N, Yoshikawa T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-450961/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                               EP1308459-A2.
                                                                                                 Homo sapiens
                                                                                                                                                                                         07-MAY-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                Isogai T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                Gabs
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                                                                                                                                                                                                                                                                                                                                                                                                                           ds; allergy; asthma; poly-G nucleic acid; aerosol formulation; hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.8%; Score 13.6; DB 1; Length 20;
llarity 80.0%; Pred. No. 9.3e+02;
Conservative 0; Mismatches 4; Indels
     | Similarity 80.0%; Fred. No. 9.3e+02; 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bratzler RL, Petersen DM, Fouron Y;
                                                                                                                                                                                                                                                                                                                                                                                   Immunostimulatory nucleic acid #232.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure, Page 8; 221pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              555 CCTCAGCCGCCGCCTCCGTC 574
                                                                           16 GGATGGACAGGAATGCAGAG 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ccecceccecceccecce 1
                                                                                                                      GGATGGAGAGGCATCCTGAG 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bb.
                                                                                                                                                                                                                                         BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-FEB-2001; 2001US-00776479
                                                                                                                                                                                                                                         ADB36618 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BRATZLER R L.
PETERSEN D M.
FOURON Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-657977/62.
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les 16; Conserv
       Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2003087848-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-DEC-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
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Best Local S:
Matches 16
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(PETE/) F
(FOUR/)
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                           Matches
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The invention comprises antisense oligonucleotides that are targeted to the nucleic acid encoding transforming growth factor beta (TGF-beta) receptor II. The antisense oligonucleotides of the invention are useful for treating: hyperproliferative disorders (e.g. breast cancer), or an autoimmune disorder (e.g. prheumatoid arthritis). The present DNA sequence represents a 2'-O-methoxyethyl gapmer oligonucleotide with a phosphorothioate backbone that is targeted to mouse TGF-beta receptor II.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New compound having a sequence targeted to a nucleic acid encoding
Transforming growth factor beta-receptor II, useful for preparing a
composition for treating hyperproliferative disorder e.g., lung, liver,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ss; primer; cytostatic; antidiabetic; anorectic; cerebroprotective; neuroprotective; antiinflammatory; gene therapy; antisense therapy; thyromimetic; NoVx; pathology; cancer; diabetes; obesity; endocrine disorder; CNS disorder; inflammatory disorder; chromosome mapping; tissue typing; predictive medicine.
                                                                mouse; antisense oligonucleotide;
transforming growth factor beta receptor II; TGF-beta receptor II;
typerproliferative disorder; breast cancer; autoimmune disorder;
rheumatoid arthritis; 2'-0-methoxyethyl gapmer;
phosphorothioate backbone; ss; murine.
                                    Mouse TGF-beta receptor II targeted antisense oligonucleotide #6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
ative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human NOVX polypeptide gene forward primer SEQ ID NO: 535.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 2 A; 9 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 3; SEQ ID NO 103; 141pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                108 GCCCCCCCCATCGCCATGG 127
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                                                                                                                                                                                                                                                                                                                      21-JUN-2001; 2001US-00888361
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
18-DEC-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 80.03
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      colon or gastric cancer
                                                                                                                                                                                                                                                                                                                                                        (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                            Murray SF, Wyatt JR;
                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-175279/17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO2003000842-A2.
                                                                                                                                                                                                               WO2003000656-A2
                                                                                                                                                                               Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                 03-JAN-2003
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ADC10516/0
BXXXXXXXXXXXXXXXX
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The invention relates to novel isolated polypeptides, mature form of the polypeptide, a sequence that is 95% identical to the polypeptide or the polypeptide comprising one or more conservative substitutions. The NOVX polypeptide is useful for treating or preventing a pathology associated with the polypeptide e.g. disorders associated with aberrant expression or activity of the polypeptide, such as cancer, diabetes, obesity, and candocrine, CNS and inflammatory disorders. They can also be used in various detection and screening assays, chromosome mapping, tissue typing and predictive medicine. This sequence corresponds to a primer used to amplify and isolate the coding sequence for one of the polypeptides of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kekuda R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated NOVX polypeptides and nucleic acid molecules useful for treating, preventing and diagnosing pathological conditions with NOVX-associated disorders, such as cancer, obesity, diabetes and inflammatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Agee ML, Anderson DW, Berghs C, Casman SJ, Catterton E;
Dipippo VA, Edinger SR, Eisen A, Ellerman K, Gangolli EA;
Gerlach VL, Gorman L, Guo X, Harkmann JL, Hjalt T, Ji W, Kekuda R
Khramtsov NV, Li L, Liu X, Malyankar UM, Miller CE, Millet I;
Ort T, Padigaru M, Patturajan M, Pena CEA, Rastelli L, Rieger DK;
Rothebrog ME, Shenoy SG, Shimkets RA, Smithson G, Spaderna SK;
Syytek KA, Stone DJ, Vernet CAM, Zhong H, Zhong M, Alsobrook JP;
Burgess CE, Lepley DM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example B; SEQ ID NO 535; 772pp; English.
                                                04-JUN-2001, 2001US-0295607P.
04-JUN-2001, 2001US-0295601P.
06-JUN-2001, 2001US-029561BP.
06-JUN-2001, 2001US-029561BP.
11-JUN-2001, 2001US-029561BP.
12-JUN-2001, 2001US-0297567P.
12-JUN-2001, 2001US-0297567P.
14-JUN-2001, 2001US-0297567P.
15-JUN-2001, 2001US-0299538P.
19-JUN-2001, 2001US-029953P.
21-JUN-2001, 2001US-029959P.
22-JUN-2001, 2001US-029999P.
22-JUN-2001, 2001US-039999P.
23-JUN-2001, 2001US-039999P.
24-JUN-2001, 2001US-039999P.
25-JUN-2001, 2001US-039999P.
26-JUN-2001, 2001US-039999P.
27-JUN-2001, 2001US-031999P.
28-JUN-2001, 2001US-031999P.
28-JUN-2001, 2001US-031999P.
28-JUN-2001, 2001US-031999P.
28-JUN-2001, 2001US-031999P.
28-JUN-2001, 2001US-031999P.
28-JUN-2002, 2002US-0359964P.
                  04-JUN-2002; 2002WO-US017443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-210149/20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           or CNS diseases.
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Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;

the invention.

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Gaps

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Indels

4;

Mismatches

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Conservative
                                                                                                                                                                                                        Homo sapiens.
Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                   01-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                           20-MAY-1999;
                                                                                                                                                                                                                                                                                                                  27-FEB-2003.
16;
                                                                                                         AAD58980;
                                                                                                                                                                                                                                                                                                                                                                                             (TENG/)
(COOK/)
(TILL/)
(HARD/)
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 Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Inhibiting corneal allograft rejection, by contacting an allograft with a formulation having an oligonuclectide targeted to intercellular adhesion molecule-1, extracellular adhesion molecule-1 or vascular cell adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a method of inhibiting corneal allograft rejection, by contacting the allograft with a topical formulation comprising an antisense oligonuclectide targeted to intercellular adhesion molecule-1 (ICAM-1), extracellular adhesion molecule-1 (ICAM-1) or vascular cell adhesion molecule-1 (VCAM-1). The oligonucleotide is useful for inhibiting corneal allograft rejection or for preserving a corneal explant ex vivo, where the explant is human. This sequence
                                                                                                                                                                                               ss; primer; immunosuppressive; antisense therapy; corneal allograft rejection; intercellular adhesion molecule-1; ICAM-1; extracellular adhesion molecule-1; BLAM-1; vascular cell adhesion molecule-1; VCAM-1; corneal explant.
                                                                                                                                                                                                                                                                                               /*tag= a
/note= "all internucleotide linkages are phosphodiester
bonds"
                                                                                                                                                                                                                                                                                                                           1. .20
/*tag= b
/mod_base= OTHER
O-methyl" all A, C and U are 2'-fluoro bases or
                              Gaps
                              ö
         0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
iive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     corresponds to one of the oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 5; SEQ ID NO 15; 106pp; English.
                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                TCAAGCIGGCIGACTITGGC 1041
                                                                                                                                                                             Human ICAM-1 targeted primer #15.
                                                                                                                    BP.
                                                                   reascarrecreacriceec
                                                                                                                                                                                                                                                                                                                                                                                                                                                18-OCT-2001; 2001US-00982262.
                                                                                                                                                                                                                                                                                                                                                                                                                             16-OCT-2002; 2002WO-US033236
                                                                                                                    20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mirabelli CK;
                                                                                                                                                          (first entry)
                              16; Conservative
                                                                                                                   ADC38989 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-403142/38.
                     Local Similarity
                                                                                                                                                                                                                                                                                     misc_difference
                                                                                                                                                                                                                                                                                                                                                                                       WO2003032920-A2
                                                                                                                                                                                                                                                                                                                              modified base
                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bennett CF,
                                                                                                                                                          18-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                         24-APR-2003
                                                                                                                                                                                                                                                Synthetic
                                                1022
                                                                                                                                       ADC38989;
                                                                   20
          Query Match
                                                                                                 RESULT 1418
                              Matches
                                                                                                           ADC38989/
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0.8%; Score 13.6; DB 1; Length 20; 80.0%; Pred. No. 9.3e+02;

Best Local Similarity

Query Match

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Formulation, useful for treating inflammatory bowel disorder, e.g. ulcerative colitis or Crohn's disease, comprises oligonucleotide for rectal delivery.
                                                                                                                                                                                                                                                                                                                                                                                Inflammatory bowel disorder; ulcerative colitis; Crohn's disease; cellular proliferation; intracellular adhesion molecule; ICAM-1; phosphorothicate backbone; antisense; human; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Manoharan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .
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Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ecker DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note = "Phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 2 A; 14 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hardee GE,
                                                                                                                                                                                                                                                                                                                                        Human ICAM-1 antisense oligo, ISIS 1939.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; Page 7; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cook PD, Tillman L,
226 GAGAGTGGTGGTGGTGGCGG
                                                20 cheheceenacreereece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-DEC-2001; 2001US-00029598.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97US-00886829,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-00108673,
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/mod base=
                                                                                                                                                                               AAD58980 standard; DNA; 20
                                                                                                                                                                                                                                                                                        18-DEC-2003 (first entry)
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Best Local Similarity 80.0
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      method of the invention
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COOK P D.
TILLMAN L.
HARDEE G E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ECKER D J.
MANOHARAN M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US2003040497-A1
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AAD59446

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New antibody that binds to an epitope of an inducible human phosphofructokinase-2 isozyme, useful for diagnosing or treating cancer, inflammation or cachexia.
                                                Cytostatic; immunomodulator; phosphofructokinase isozyme; iPFK; cancer; inflammation; cachexia; enzyme linked immunosorbant assay; ELISA; therapy; phosphorothicate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to an isolated antibody that binds to an epitope of an inducible human phosphofructokinase-2 (iPFK-2) isozyme. T antibody is useful for treating cancer, inflammation and cachexia. The antibody can also be used in enzyme linked immunosorbant assay (ELISA) immunological assays. The present sequence is S-iPFK-2 sense phosphorothicate oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA vaccine, flatfish rhabdovirus, HIRRV, fish; immunity; transcriptional-control, cytomegalovirus immediate-type promoter; immunogenic; virucide, gene gun; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
0.8%; Score 13.6; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 9.38+02;
Matches 16; Conservative 0; Mismatches 4; Indels
                 S-iPFK-2 (A) sense phosphorothicate oligonuclectide.
                                                                                                                                                                                                                                     /note= "Phosphorothicate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 4 A; 5 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mitchell RA;
                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1679 CCAACTACATCTTCCCTGCT 1698
                                                                                                                                                                                                                                                                                                                                                                                                                                          (PICO-) PICOWER INST MEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 3; Col 10; 31pp; English.
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/*tag= a
/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADD22540 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                  25-SEP-2000; 2000US-00670216.
                                                                                                                                                                                                                                                                                                                                                                                     97US-00961578.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chesney JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-743054/70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hirame rhabdovirus
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                                                                                                                                                                 Key
modified_base
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30-OCT-1998;
                                                                                                                            Unidentified
                                                                                                                                                                                                                                                                            US6596851-B1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bucala RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADD22540;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADD22540
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to an isolated antibody that binds to an epitope of an inducible human phosphofructokinase-2 (iPFK-2) isozyme. The antibody is useful for treating cancer, inflammation and cachexia. The antibody can also be used in enzyme linked immunosorbant assay (ELISA) immunological assays. The present sequence is AS-iPFK-2 antisense phosphorothioate oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antibody that binds to an epitope of an inducible human phosphofructokinase-2 isozyme, useful for diagnosing or treating cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                    Cytostatic; immunomodulator; phosphofructokinase isozyme; iPFK; c:
inflammation; cachexia; enzyme linked immunosorbant assay; ELISA;
therapy; phosphorothioate; antisense; ss.
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                                                                                                                                                                                                                                       AS-iPFK-2 (A) antisense phosphorothioate oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note= "Phosphorothioate backbone"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chesney JA, Mitchell RA;
                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1679 CCAACTACATCTTCCCTGCT 1698
226 GAGAGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 3; Col 10; 31pp; English.
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                   20 GAGAGGGAAGTGGTGGGGG 1
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                                                                                                                            BP
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98US-00183846.
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AAD59445 standard; DNA; 20
                                                                                                                            AAD59446 standard; DNA; 20
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                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                       . .20
*tag=
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modified_base
                                                                                                                                                                                                                                                                                                                                                Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-OCT-1997;
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                                                                                                                                                                 AAD59446;
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                                                                                           RESULT 1420
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AAD59445/c
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A typing method for single nucleotide polymorphism (SNP) of several hundred thousands of SNP sites with comparatively a small amount of
                              WPI; 2003-818526/77.
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                                                                                                                                                                                                 JP2002300894-A.
                                                                                                                                                                      15-JAN-2004
                                                                                                                                                                                                        15-0CT-2002,
                                                                                                                                                                                                                                                 genome DNA
                                                                                                                                                               ADD68463;
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This invention describes a novel method for identifying an inhibitor potentially useful for treatment of cancer, where the inhibitor is active on a gene vital for cell growth or viability, and where the gene is subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is used for preventing the development of cancer in a patient having a precancerous condition, by administering to the patient a first allele specific inhibitor (AsI) targeted to an allele of a first essential gene present in cells of the precancerous condition, where the normal somatic cells of the patient are heterozygous for the first gene, the inhibitor is active on at least one but less than all allelic forms of the gene normal somatic cells, and the first gene. The products and methods can be normal somatic cells, and the first gene. The products and methods can be
                                          The invention relates to a novel method for typing a single nucleotide belynarizins (SNP) using a small amount of genomic DNA comprising simultaneous amplification of plural base sequences containing one or more SNP sites and differentiation of the bases within the SNP sites. The method of the invention may be useful for typing several hundred thousand SNP sites using only a comparatively small amount of genomic DNA. The current sequence is that of the SNP typing-related PCR primer of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cell viability; loss of heterozygosity; precancerous condition; ASI; allele specific inhibitor; somatic cell; diagnosis; prevention; atherosoclerotic plaque; premalignant metaplastic lesion; endometriosis; dysplastic lesion; bengn tumour; polycystic kidney disease; transplant; graft versus host disease; malignant cell removal; bone marrow; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plaque, dysplastic lesions, endometriosis or graft versus host disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Polymorphism; human; inhibitor; cancer; treatment; cell growth;
                                                                                                                                                                                                                                                                                                                     Score 13.6; DB 1; Length 20;
Pred. No. 9.3e+02;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                     4; Indels
                                                                                                                                                                                                                                                                        Sequence 20 BP; 6 A; 6 C; 6 G; 2 T; 0 U; 0 Other;
Example 2; SEQ ID NO 20; 45pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Stanton VP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Fig 7; 605pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                        765 GCTCAAGGACCTCAAACACG 784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GCTCACGGAACTCGAAGACG 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human polymorphic region 291.
                                                                                                                                                                                                                                                                                                                        0.8%;
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                                                                                                                                                                                                                                                                                                                                             Local Similarity 80.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Housman D, Ledley FD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1998-521232/44
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                                                                                                                                                                                                                          invention.
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                                                                                                                                                                                                                                                                                                                        Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a novel DNA vaccine for flatfish rhabdovirus (HIRRV) infected fishes, which provides immunity against HIRRV. The vaccination method uses a DNA construct comprising a transcriptional-control sequence containing cytomegalovirus immediate-type promoter, operably coupled to a nuclectide sequence encoding an immunogenic polypeptic of HIRRV. The DNA vaccine has virucide activity. The HIRRV DNA vaccine is useful for administering to a fish belonging to the flatfish family by gene gun. The HIRRY DNA vaccine is useful for inducing preventing HIRRV infection in flatfish. The HIRRV DNA vaccine is effective in enhancing immunity of fish infected by HIRRV. This polymucleotide sequence represents an oligo used in the analysis of the mRNA expression level from the muscles of flatfish, following an innoculation with the flatfish rhabdovirus vaccine of the invention.
                                                                                                                                                                                                                                                                  DNA vaccine for flatfish rhabdovirus infected fishes has DNA construct comprising a transcriptional control sequence coupled to a nucleotide sequence encoding an immunogenic protein of flatfish rhabdovirus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.8%; Score 13.6; DB 1; Length 20;
80.0%; Pred. No. 9.3e+02;
iive 0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                     Example 6; Fig 5; 13pp; Japanese.
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                                                                                                                                          (MEIJ ) MEIJI SEIKA KAISHA LTD (AOKI/) AOKI H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВР
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                        26-SEP-2001; 2001JP-00294473.
                                                                  06-SEP-2001; 2001JP-00271068.
10-SEP-2001; 2001JP-00274202.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADD68463 standard; DNA; 20
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Best Local Similarity 80.0'
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Nucleic acid sequence single primer amplification - useful for genomic variation analysis and polymorphism detection for restriction fragment length data.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The selected primer is used in practice of the single primer amplification reaction (SPAR). (Updated on 25-MAR-2003 to correct PN
correlations to diseases. The present sequence is an example of the human gene SNPS shown in the specification
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0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 7.7e+02;
Matches 14; Conservative 0; Mismatches 1; Indels
                                                                                                    0.8%; Score 13.6; DB 1; Length 21;
80.0%; Pred. No. 9.7e+02;
Ative 0; Mismatches 4; Indels
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                                                            Sequence 21 BP; 3 A; 6 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Single primer amplification; SPAR; ss.
                                                                                                                                                                                         1459 TTCCTCAGTCTGGGGGAGCG 1478
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                                                                                                                                                                                                                               1 Trecreaseses 20
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                                                                                                                                                                                                                                                                                                                                        AAQ24934 standard; DNA; 15
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(first entry)
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(first entry)
                                                                                                    Query Match 0.89
Best Local Similarity 80.0°
Matches 16, Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic primer (261)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1992-183683/22.
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                                                                                                                                                                                                                                                                                                                                                                                                                        25-MAR-2003
19-NOV-1992
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18-APR-1997
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                    cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic lesions, benign tumours, endometricsis, polycystic kidney disease, and graft versus host disease. The method can also be used to remove malignant cells from bone marrow transplants. AAZ25812-Z26825 represent human polymorphic sites described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular diesase; coronary artery disease; forenaics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism; pulmonary embolism; paternity test; ds.
    used in the diagnosis, prevention and treatment of LOH disorders, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mccarthy JJ;
                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /standard_name= "single_nucleotide_polymorphism"
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                                                                                                                                                                                       0.8%; Score 13.6; DB 1; Length 21;
80.0%; Pred. No. 9.7e+02;
tive 0; Mismatches 4; Indels
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                                                                                                                                              Sequence 21 BP; 1 A; 5 C; 10 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human gene single nucleotide polymorphism #2298
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (WHED ) WHITEHEAD INST BIOMEDICAL RES. (MILL-) MILLENNIUM PHARM INC.
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                                                                                                                                                                                                                                                                              1659 CACCCCTCACAGGGCAGCCC 1678
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16-AUG-2000; 2000US-0225724P.
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Matches 16; Conservative
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                                                                                                                                                                                             Query Match
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AAF97537
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Gaps

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schultz621-3.rng

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Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; down-regulation; interleukin-5; ILG-5; ICAM-1; intercellular adheaton molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene; translocation; chronic myelogenous leukemaia, CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atherosclerosis; myocardial infarction; stroke; restenosis; transplant rejection; heumatoid arthritis; psoriasis; myocardial ischaemia; Kawasak disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
        Human relA hammerhead ribozyme target sequence (nt. position 631).
                                                                                                                                                                                                                                                                                                                 94US-00291433.
94US-00292620.
94US-0029320.
94US-00300000.
94US-00311486.
94US-0031149.
94US-00314397.
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94US-00321993.
94US-00334847.
94US-00337608.
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94US-00228041
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94US-00271280
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94US-00357577
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (RIBO-) RIBOZYME PHARM INC.
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08-SEP-1994;
23-SEP-1994;
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11-OCT-1994;
04-NOV-1994;
                                                                                                                                               Homo sapiens
                                                                                                                                                                  WO9523225-A2
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06-JUL-1994
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o DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW; Karpelsky A, Kielch K, Marulic-Adamic J, Mcswiggen JA; Rarpelsky B, Kielch K, Marulic-Adamic J, Mcswiggen JA; Dyawco P, Beigleman I, Sullivan SM, Sweedler D, Thompson JD; Usman N, Wincott FE, Woolf T; Grimm S, Modak A, Tracz D,

WPI; 1995-351090/45

Ribozymes having modified bases and methods for producing them - for in inhibiting disease related genes.

Claim 2; Page 228; 407pp; English.

The present sequence represents a preferred target sequence for an enzymatic nuclecided acid (i.e. a ribozyme) which cleaves relA mRNA at the nucleotide base position indicated in the DE line. The reAA game product is a subunit of the transcriptional regulator NF-kappaB and is implicated specifically in the induction of inflammatory responses. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their

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                 sequences and thereby inhibit relA expression, making them potentially useful for treating rheumatoid arthritis, restenosis and asthma as well as for increasing tolerance to transplanted tissues. The potential immunosuppressive properties of a ribozyme that cleaves relA mRNA means that uses are limited to local delivery, acute indications or ex vivo treatment. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                      Gaps
  nuclease resistance. The ribozymes are designed to cleave the target
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                                                                                                                                                                                                                                   0.8%; Score 13.4; DB 1; Length 15; 66.7%; Pred. No. 7.7e+02; ive 4; Mismatches 1; Indels
                                                                                                                                                                                      Sequence 15 BP; 4 A; 5 C; 1 G; 0 T; 5 U; 0 Other;
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Best Local Similarity 66.75
Watches 10; Conservative
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88888888888
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1 CCAUCUUUGACAAUC 15

AAX75669 standard; RNA; 15 (first entry) 28-JUL-1999 AAX75669;

Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;

Human flt-1 and KDR hammerhead ribozyme target site #3.

foetal liver kinase 1; ss. Homo sapiens WO9715662-A2 01-MAY-1997. 

96WO-US017480. 95US-0005974P. 25-OCT-1996; 26-OCT-1995; 11-JAN-1996;

Stinchcomb D, (RIBO-) RIBOZYME PHARM INC. (CHIR ) CHIRON CORP. Pavco P, Mcswiggen J,

Escopedo

WPI; 1997-259017/23

Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient.

Example 9; Page 191; 218pp; English.

The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vaccular endothelial growth factor (WRGP). A patient (preferably human) having a condition associated with the level of the fms-like tyzosine kinase 1 (EL-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule arthritis) can be vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention

Seguence 15 BP; 7 A; 1 C; 3 G; 0 T; 4 U; 0 Other;

Query Match

0.8%; Score 13.4; DB 1; Length 15;

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The present sequence represents a hybridisation probe used to differentiate between pathogenic and vaccine strains of cattle brucallosis. The method comprises digestion of DNA from the test strain with restriction enzyme Nco 1, transfer of the fragments obtained to filters, subsequent fixing of these onto the filters, hybridisation with a labelled sample, and examination of the results. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                                                  Differentiating pathogenic and vaccine strains of cattle brucellosis - using restriction digestion with Nco 1 and transfer of the DNA fragments to filters in an electric field.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tag sequence; colorectal cancer; pancreatic cancer; colon cancer; diagnosis; prognosis; treatment; ss.
              Hybridisation probe, differentiation; pathogenic; vaccine strain; cattle brucellosis; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tag sequence of a transcript increased in colorectal cancer.
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                                                                                                                                                                                                                                                                                Mullakaev OT;
                                                                                                                                                                                                                                             (KZVE=) KAZAN VETERINARY MED ACAD.
                                                                                                                                                                                                             94RU-00024845.
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                                                                     Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Differentiating pathogenic and vaccine strains of cattle brucellosis -
using restriction digestion with Nco 1 and transfer of the DNA fragments
to filters in an electric field.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                  Gaps
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                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 5 A; 10 C; 0 G; 0 T; 0 U; 0 Other;
93.3%; Pred. No. 7.7e+02;
tive 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Idrisov GZ, Mullakaev OT;
                                                                                                                                                                                                                                                                                                 DNA sequence of the specification.
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                                                                                                                                                                          BP.
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                                                  1501 ACTICCATATITGCA 1515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94RU-00024845.
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                                                                                                                                                                          AAV42654 standard; DNA; 15
                                                                                    15 ATTTCCATATTTGCA 1
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(first entry)
                                                                                                                                                                                                                                             (revised)
(first entry)
Best Local Similarity 93.3
Matches 14; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                         RU2095418-C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUL-1994;
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16-OCT-1998
                                                                                                                                                                                                                                             25-MAR-2003
16-OCT-1998
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                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
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AAV42817/C
XX
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AAV42817
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AAV42817
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25-MAR-7
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16-OCT-1
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Probe ut
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Gaps

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AAX30947-31815 represent tag sequences of transcripts that are differentially expressed in colorectal cancer, in pancreatic cancer, or in both. The tag sequences can be used to identify genes by matching the tag to a gen data base member, or by using the tag sequences as probes to isolate unidentified genes from cDNA libraries. The tag sequences can also be used in a method for diagnosing colon or pancreatic cancer in a sample suspected of being neoplastic. The method comprises comparing the level of at least one transcript in a first sample of a tissue to a second sample, where the first sample is a colonic tissue suspected of being neoplastic and the second sample is a normal human colonic tissue. The transcript is identified by a tag selected from AAX30947-31815. The methods of the invention can be used in the diagnosis, prognosis and
               Use of isolated gene transcripts - useful for developing products for diagnosis, prognosis and treatment of cancers, particularly colon and pancreatic cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dideoxyribonucleic acid; dDNA; research; medical application;
                                                                                                                                                                                                                                                                                                                                                                  Query Match 0.8%; Score 13.4; DB 1; Length 15; Best Local Similarity 93.3%; Pred. No. 7.7e+02; Matches 14; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 4 A; 3 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Original DNA template oligonucleotide sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           data communication; DNA sequencing; ss.
                                                                            Claim 2; Page 34; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98CA-02256128.
                                                                                                                                                                                                                                                                                                                                                                                                                                  926 TCCAGCTGCTCCGTG 940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98CA-02256128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAA92356 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCCAGCTGCTCCATG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                        treatment of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (DAVI/) DAVIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CA2256128-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 1432
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BP.

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weethod (I) has been developed for generating, in the same reaction vessel, a selected set of codons (II). The method comprises providing two (optionally three) sets of monouncleosides, monouncleotides, (optionally three) sets of monouncleotides, and three sets of monouncleotides or mixtures of these and optionally repeatedly adding a third set, where (II) includes at least one codon having A or G at the third set, where (II) includes at least one codon having A or G at the third set, where (II) includes at least one codon having a or a stop codon. Also described is a method (II) for generating an oligomucleotide from (II), comprising the method (II), followed by repeating the method or until an oligomucleotide of the desired length is achieved. (I) and (II) are useful for chemically synthesising DNA or NNA. The DNA sequences generated provide a wide variety of protein products useful in pharmaceutical research. In particular the methods are useful in pharmaceutical research. In particular the methods are useful in techniques, ribosome display techniques and protein-uncleic acid fusion techniques. Codon-randomised DNA can also be used in cellular cultures (in vivo) for protein expression, or for in vitro applications using, equence represents an oligomucleocide which is used in the present exemplification of the present invention
                                                                                                                                                                                        ö
obtain accurate sequence estimate. (I) is useful for a research and medical applications. (I) minimises error rates in sequencing or testing nucleic acids. The present sequence represents an original DNA template which is used in the exemplification of the present invention
                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Acid/base orthological deprotection scheme 15-mer oligonucleotide #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               codon randomised nucleic acid; randomised cassette mutagenesis; phage display; ribosome display; protein-nucleic acid fusion; protein expression; in vitro translation system; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthesis of selected codon randomized nucleic acids useful for generation of DNA or RNA sequences for pharmaceutical research.
                                                                                                                                                                                        ;
0
                                                                                                                                              DB 1; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Acid/base orthological deprotection scheme; DNA synthesis;
                                                                                                                                                                                      1; Indels
                                                                                                      Sequence 15 BP; 5 A; 4 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                            0.8%; Score 13.4; DB 1;
93.3%; Pred. No. 7.7e+02;
vative 0; Mismatches 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 8; Page 29; 61pp; English.
                                                                                                                                                                                                                              1326 CAAGTACCGAGCCGA 1340
                                                                                                                                                                                                                                                                                                                                                                             AAA29402 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99WO-US022436
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                                                                                                                                                                                                                                                                    1 CAAGTACCGAGCTGA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-AUG-2000 (first entry)
                                                                                                                                 Ouery Match
Best Local Similarity 93.34
Marches 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lohse P, Kuimelis RG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-293102/25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (PHYL-) PHYLOS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200018778-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                       AAA29402;
                                                                                                                                                                                                                                                                                                                                     RESULT 1433
                                                                                                                                                                                                                                                                                                                                                           AAA29402
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Sequence 15 BP; 3 A; 5 C; 4 G; 3 T; 0 U; 0 Other;

The present invention describes a method (I) for extracting a sequence of bases from a dideoxyribonucleic acid (dDNA) template. The method comprises forming a set of products (P) selected to implement a code with desirable error correcting characteristics from the template through chemical reactions, obtaining a set of signals (S) from (P) by DNA sequencing and using the code to recover the base sequence from (S), to

Extracting sequences of bases from dideoxyribonucleic acid templates research and medical applications, involves creating a new set of molecules which introduce error correcting code, from the template.

WPI; 2000-587794/56.

Disclosure; Page 4; 9pp; English.

1684 TACATCTTCCCTGCT 1698

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AAF46589 standard; DNA; 15

30-MAR-2001 (first entry) IGFBP3 oligonucleotide #9

AAF46589;

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Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborinoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasis, kidney disease; neobascular condition; hyperplasis; kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                          Gaps
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 Length 15;
0.8%; Score 13.4; DB 1; Length 1
33.3%; Pred. No. 7.7e+02;
tve 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                     BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0140345P
                                                374 AGGCTTCAGCCACGT 388
                                                                                                                                                                                                            IGF-I oligonucleotide #1371.
                                                                                                                                                                                                                                                                                                                                                                                                                         21-JUN-2000; 2000WO-AU000693
                                                                                                                                    AAF50411 standard; DNA; 15
                                                                                                                                                                                   (first entry)
           14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CJ, Werther GA,
                                                                      AGGGTTCAGCCACGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-041421/05.
                                                                                                                                                                                                                                                                                                                                                                          WO200078341-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     inflammation.
                                                                                                                                                                                   30-MAR-2001
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                                                                                                                                                          AAF50411;
             Local
          Best Loce
Matches
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Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor. I receptor; IGF-1; pityriasis; IGF binding procein, IGFB-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neobascular condition of the retina; ss.

Wraight CJ, Werther GA, Edmondson SR;

WPI; 2001-041421/05.

(MURD-) MURDOCH CHILDRENS RES

99US-0140345P.

21-JUN-1999;

21-JUN-2000; 2000WO-AU000693.

WO200078341-A1 Homo sapiens.

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [GGF] - receptor, IGF binding protein [IGFB]-2 or IGFBB], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153 - F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pivylasis, tuba, pilaris, serborrhoea, keloids, keratosis, chthyosis, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition auch as a neovascular condition of the retina, brain or skin, growth factor-mediated mailgnancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15 BP; 1 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 7; Page 44; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1634 GCAGGCAGCGGCTGG 1648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inflammation.
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The present invention relates to a method for ameliorating the effects of shin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBB]-2 or IGFBB3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pitaris, serborrhoea, keloids, keratosis, ichthyosis, pityriasis, ruba, pitaris, serborrhoea, keloids, keratosis, hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, hyperproliferation of the inside of blood

Example 8; Page 69; 201pp; English

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0.8%; Score 13.4; DB 1; Length 15; larity 93.3%; Pred. No. 7.7e+02; Conservative 0; Mismatches 1; Indels

Query Match Best Local Similarity Matches 14; Conserv

Sequence 15 BP; 7 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

vessels or any other hyperplasia

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFB]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation.

Inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectide which can be used to design the antisense oligonuclectide which can be used to design the effects of psoriasis, oligonuclectides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, neoplasias, soleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, the brain or skin, growth factor—mediated malignancies, other sclerotic disease, kidhey disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
                                                                                                                                                                                  Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; necovascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 8; Page 69; 201pp; English.
    410/c
AAF50410 standard; DNA; 15 BP
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                                                                                                                                               IGF-I oligonucleotide #1370
                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wraight CJ, Werther GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-041421/05
                                                                                                                                                                                                                                                                                                                                                                                                                               WO200078341-A1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   inflammation.
                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                      30-MAR-2001
                                                             AAF50410;
AAF50410,
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Gaps
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0
                                     Length 15;
                                                                     1; Indels
Sequence 15 BP; 7 A; 1 C; 5 G; 2 T; 0 U; 0 Other;
                                 O.8%; Score 13.4; DB 1;
Similarity 93.3%; Pred. No. 7.7e+02;
4; Conservative 0; Mismatches 1;
                                                                     14; Conservative
                                 Query Match
Best Local S
                                                                     Matches
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1685 ACATCITCCCTGCTT 1699

ਨੇ g RESULT 1437 AAF50702/c

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Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant; virucide; ophthalmological, keloid, skin disorder; insulin-like Growth Factor. I receptor; IGF-1, pitrylianis; IGF binding procein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scalaroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neobvascular condition of the retina; sa; Ameliorating the effects of a disorder, e.g. psoriasis, by administering V (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation. The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF] receptor, IGF binding protein [IGFBP] - or IGFBPB), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 olifothyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hypermeovacular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic meneral or skin, growth factor-mediated malignancies, other sclerotic meneral or skin, schero hyperprioliferation of the inside of blood Wraight CJ, Werther GA, Edmondson SR (MURD-) MURDOCH CHILDRENS RES INST. Example 8; Page 71; 201pp; English. AAF50702 standard; DNA; 15 BP. 21-JUN-2000; 2000WO-AU000693 99US-0140345P, IGF-I oligonucleotide #1662 (first entry) WPI; 2001-041421/05. WO200078341-A1. Homo sapiens. 21-JUN-1999; 30-MAR-2001 28-DEC-2000. 

Gaps ö 0.8%; Score 13.4; DB 1; Length 15; 13.3%; Pred. No. 7.7e+02; ve 0; Mismatches 1; Indels 1283 CAGGCATCCTGTCCA 1297 93.3%; Local Similarity 93.3 es 14; Conservative 15 caeccarccrecca Query Match RESULT 1438 Matches ઠે 셤

Sequence 15 BP; 2 A; 3 C; 7 G; 3 T; 0 U; 0 Other;

disease, kidney disease, wyresers vessels or any other hyperplasia

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ABZ34171; ABZ34171 ID ABZ XX AC ABZ XX

ABZ34171 standard; DNA; 15 BP.

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The present invention describes a method for detecting mutations associated with anti-HV drug resistance in a patient by desecting at least one of the mutations K103N/R, V106A/IL, Y18LCI, M184V/I, Y18BL, C190A/S/R, T215Y/F/D/S/A and/or O151M/L in the reverse transcriptase (RT) of HV strains in a biological sample using a specific set of probes optimised to function together in a reverse-hybridisation assay. The method and the nucleic acid sequences used in the method are useful for determining viral mutations and/or polymorphisms in the HIV RT gene associated with resistance. The probes are useful for the genetic detection, preferably in vitro detection of the mutations K103N/R, V106A/I/L, Y18IC/I, O151M/L, M184V/I, Y18BL, G190A/S/R and/or C151SY/F/D/S/A in the RT of HIV strains in a biological sample, where the mutation is associated with anti-HIV drug resistance. The method provides a rapid, reliable and precise assay or determination and monitoring of antiviral drug resistance or mutation associated with drug resistance of viruses containing RT genes. ABZ34642 represent HIV RT containing RT genes. ABZ34542 represent HIV RT contains and probes which are used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Detecting mutations associated with anti-HIV drug resistance comprises detecting at least one of the mutations in the HIV reverse transcriptase gene by using probes optimized to function together in a reverse-hybridization assay.
                                                                      Human immunodeficiency virus; HIV; reverse transcriptase; RT; enzyme; detection; mutation; anti-HIV drug resistance; polymorphism; resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                    HIV-1 reverse transcriptase mutation detection probe SEQ ID NO:413.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%; Score 13.4; DB 1; Length 15; 93.3%; Pred. No. 7.7e+02; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15 BP; 4 A; 2 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human colon cancer SAGE tag #233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 2; Page 27; 117pp; English
                                                                                                                                                   Human immunodeficiency virus 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP
                                                                                                                                                                                                                                                                                                                       11-JAN-2001; 2001EP-00870005.
20-APR-2001; 2001EP-00870085.
24-APR-2001; 2001US-0286102P.
                                                                                                                                                                                                                                                                                   09-JAN-2002; 2002WO-EP000153
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ID ABK32132 standard; DNA; 15
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(first entry)
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les 14, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                  (INNO-) INNOGENETICS NV.
                                                                                                                                                                                                                                                                                                                                                                                                                                        De Smet K, Stuyver L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-590680/63.
                                                                                                                                                                                                          40200255741-A2
  31-JAN-2003
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                                                                                                                                                                                                                                              18-JUL-2002
                                                                                                               probe; ss.
                                                                                                                                                                       Synthetic.
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Matches
BXXXXBXB
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The invention relates to an isolated, purified human nucleic acid (I) that has the same sequence as a mRNA found in humans and is a SAGE (serial analysis of gene expression) tag comprising a single stranded probe containing at least 10 consecutive nucleotides. SAGE tags, are diagnostic and prognostic markers of cancer, especially of the colon and pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer SAGE tags of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
            Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag; serial malysis of gene expression; diagnostic; prognostic; probe; cancer marker; ss.
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    .16
    /*tag= a
    /note= "Linked via phosphorothioate linkages"

                                                                                                                                                                                                                                                                         New human nucleic acid containing specific SAGE tags, useful diagnostic markers for cancer, also derived probes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rev response element; HIV isolate sf2; hybritope probe pool; hybritope mapping; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.8%; Score 13.4; DB 1; Length 15; 93.3%; Pred. No. 7.7e+02; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ineffective anti-HIV Rev response element probe 7819.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 4 A; 3 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                        Zhou W;
                                                                                                                                                                                                                        Zhang L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                             Disclosure; Col 29; 161pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT32677 standard; DNA; 16 BP.
                                                                                                                                           98US-000B1646.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              926 TCCAGCTGCTCCGTG 940
                                                                                                                                                                                                                        Vogelstein B, Kinzler KW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15 rccagcrdcrccarg 1
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Best Local Similarity 93.3'
Matches 14, Conservative
                                                                                                                                                                                                                                                WPI; 2002-153821/20
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modified_base
                                                                                                                                           20-MAY-1998;
                                                                                                                                                                      20-MAY-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-DEC-1994;
                                                                Homo sapiens
                                                                                        US6333152-B1
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                                                                                                                  25-DEC-2001.
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The sequences given in AAT32673-76 represent effective, and those in AAT32673-76 and those in AAT32673-76 and the sequence probe pool. Hybritope mapping describes a method of determining superior sites for binding oligomocleotides to a target sequence, to identify improved discontinuous probes with high binding constants. The method comprises obtaining a series of oligomocleotides which are complementary to a known target sequence and which overlap each other by 1-4 mucleotides. Each of these sequences is contacted with the target sequence to permit specific hybridisation, and detecting the presence or absence of specific hybridisation to determine oligomucleotides which bind within the known target sequence. This sequence contacted with the sprace of specific hybridisation to determine oligomucleotides which bind within the known target sequence. This number of this probe corresponds to the 5' position on the HIV sf2 target to which the 3' end of the probe binds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antisense; cytomegalovirus; CMV; human; therapy; prophylaxis; diagnosis; intermediate early complex; IE1; IE2; DNA polymerase gene; ss.
                                                                                              Detecting target binding oligo-nucleotide(s) - using oligo-nucleotide probes with a nucleotide sequence which binds within a known sequence of a target nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 0.8%; Score 13.4; DB 1; Length 16; Best Local Similarity 93.3%; Pred. No. 8.2e+02; Matches 14; Conservative 0; Mismatches 1; Indels
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/note= "phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 16 BP; 4 A; 5 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CMV antisense oligonucleotide (ISIS 5480).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
1. .17
                                                                                                                                                                       Example 5; Page 27; 43pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Draper K, Anderson K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAT11976 standard; DNA; 17 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  156 GTCAATGACACTCCG 170
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1995-292538/38
 (CHIR ) CHIRON CORP
                                                                     WPI; 1996-287198/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Key
modified_base
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13-MAR-1996
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                                Collins ML;
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XBX1XBXBXBXBX31111X8X8X8XBXBXBXBX
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/note= "at least one (and preferably all) of the backbone
subunits are composed of amide units, so that the
oligomer consists of the nucleobases attached covalently
to a polyamide backbone"
                                                                                         AAT11971-84 are antisense oligonucleotides (ONS) against human expressed vertivities of at least 50 % of control (ISIS 2922 shown in APA11961). It was found that up to 4 internal mismatches could be tolerated without loss of antiviral activity. Antisense ONS targeting CMV DNA or RNA coding for the ISI, ISE2 or DNA polymerase proteins have been shown to be effective in therapy, prophylaxis and diagnosis of CMV infection. The ONS may be modified to prophylaxis essistence and to increase their efficacy. Modifications include phosphorothicate backbones, alkyl and halogen-substituted sugar mojeties at the 2' position. (Updated on 25-MAR-2003 to correct PF
New oligo-nucleotide inhibits cytomegalovirus replication - by binding to a portion of cytomegalovirus RNA, for the diagnosis, prophylaxis and treatment of CMV diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New peptide nucleic acid oligomers hybridisable to cytomegalovirus or papilloma:virus - are stable anti:sense molecules with high affinity for single stranded DNA, used for treating infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New oligomers are claimed which (A) have at least one peptide nucleic
                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peptide nucleic acid, PNA, cytomegalovirus, CMV, papillomavirus; antiviral; diagnostic, ss.
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                                                                                                                                                                                                                                                                                                                 0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; tive 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Peptide nucleic acid targetting CMV IE2 nuc sig 2.
                                                                                                                                                                                                                                                                                    Seguence 17 BP; 0 A; 5 C; 3 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mirabelli CK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                              Example 10; Col 17; 66pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 2; Page 44; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP
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                                                                                                                                                                                                                                                                                                                                                                               135 GAAGAAGATCAAACG 149
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                                                                                                                                                                                                                                                                                                                                                  14; Conservative
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                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
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misc_feature
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AAT01678/c
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Gaps ö

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untranslated region, intron/exon (I/E) junction or coding sequence of cytomarslated region, intron/exon (I/E) junction or coding sequence of cytomegalovirus gene selected from DNA polymerase, IEI and IEI, or hybridisable to the E, EZ, E4, E5, E6, E7, L1 or L2 reading frames of a papillomavirus. The PNAs can be used to target RNA and single stranded DNA (ssDNA) to produce antisense-type gene regulation moieties. Hence they may be used therapeutically for modulating cytomegalovirus and papillomavirus processes and also as diagnostics (e.g., as probes for specific mRNAs). PNA oligomers have high affinity for complementary specific mRNAs). PNA oligomers have high affinity for complementary single stranded DNA. They are also able to form triple helices in which a first PNA strand binds with RNA or ssDNA and a second PNA strand binds with RNA or ssDNA and a second PNA strand. The PNAs possess no significant charge and are water soluble, which facilitates possess no significant charge and are water soluble, which facilitates cellular uptake. Futher, since they contain amides of non-biological amino acids, they are biostable and resistant to enzymatic degradation by processes. The present sequence targets CMV IEZ nuclear localisation
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Seguence 17 BP; 0 A; 5 C; 3 G; 9 T; 0 U; 0 Other;

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Gaps
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0
0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02;
                      1; Indels
                       0; Mismatches
                                             135 GAAGAAGATCAAACG 149
                                                                    GAAGAAGAGCAAACG 2
                        14; Conservative
             Similarity
                                                                    16
 Query Match
             Local
                       Matches
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Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR, hammerhead ribozyme; hairpin ribozyme; detavage; tumour angiogeneeis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase i; kinase insert domain containing receptor; Human flt1 VEGF receptor hammerhead ribozyme substrate #474. ВЪ AAX69179 standard; RNA; 17 (first entry) 28-JUL-1999 AAX69179; RESULT 1443 AAX69179, 

foetal liver kinase 1; ss Homo sapiens WO9715662-A2 01-MAY-1997.

96WO-US017480. 95US-0005974P. (RIBO-) RIBOZYME PHARM INC. (CHIR ) CHIRON CORP. 25-OCT-1996; 26-OCT-1995; 11-JAN-1996;

Escobedo J; Stinchcomb D, Pavco P, Mcswiggen J, WPI; 1997-259017/23. stability - useful for treating VEGF receptor(s) gene expression or mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient. Claim 4; Page 61; 218pp; English. The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VBGP). A patient (preferably human) having a condition associated with the level of the

Length 17;

0.8%; Score 13.4; DB 1; 60.0%; Pred. No. 8.7e+02;

Query Match Best Local Similarity

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vacular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fme-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flt-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. ANX67275 to ANX75752 represent specific examples
fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour anglogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Vascular endothelial growth factor receptor; VBGF receptor; flt-1; flk-1; VBGF remerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid archritis; coular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acid molecule modulating VEGF receptor(s) gene expression or
stability - useful for treating e.g. tumour angiogenesis, psoriasis,
rheumatoid arthritis, etc., in a human patient.
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0
                                                                                                                                                                       0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; rative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human KDR VEGF receptor hammerhead ribozyme substrate #483.
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                                                                                                                                      Sequence 17 BP; 7 A; 3 C; 3 G; 0 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 4; Page 111; 218pp; English
                                                                                                                                                                                                                                                       1501 ACTTCCATATTTGCA 1515
                                                                                                                                                                                                                                                                                                                                                                                          AAX71471 Standard, RNA; 17 BP
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96US-00584040.
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                                                                                                                                                                                                                                                                                          16 Arriccararifica 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-JUL-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         foetal liver kinase 1; ss.
                                                                                                                                                                       Query Match
Best Local Similarity 93.3 Matches 14; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1997-259017/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
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11-JAN-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX71471;
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Mon May

Matches

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AAV9752

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Sequences AAV69693 and AAV69694 represent nested oligonucleotide probes corresponding to the exon 1 of the human glial cell line-derived neurotrophic factor (GDNF) gene. These were used to identify the neurotrophic factor (GDNF) gene. The invention relates to the use of the human GDNF promoter which contains a proximal section which ensures consistent low level GDNF expression in multiple cell types, and a distal section designed to alter transcription during development and in response to environmental stimuli. The GDNF promoter can be used for expressing GDNF in a cell, for identifying modulators and binding contacts can be used for identifying and treatment of disorders involving GDNF such as neural degeneration, e.g. seizures, Parkinson's disease, Lou Gehrig's disease, and various developmental defects resultant from the gromoter as also used for gene therapy and for expressing heterologous genes for treating e.g. severe combined immunodeficiency, haemophilia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated glial cell line-derived neurotrophic factor promoter - used to develop products for treating e.g. neuronal degeneration, immunodeficiency, haemophilia or proliferative disorders such as cancers.
                                                                                                                                transcription, environmental stimulus, modulator, neural degeneration,
Parkinson's disease, Lou Gehrig's disease, developmental defect, tumour,
gene therapy, neural degeneration, immunodeficiency, haemophilia, cancer,
                                                                                                           GDNF; glial cell line-derived neurotrophic factor; promoter; seizure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; tive 0; Mismatches 1; Indels
                                                                    Human GDNF gene exon 1 specific nested probe exon 1B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ramakrischnan L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            genes for treating e.g. severe combined immunodefic proliferative disorders such as tumours and cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 17 BP; 2 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schaar DG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 43; 69pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Anti-CMV oligonucleotide #5480.
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                                                                                                                                                                                                                                                                                                                                                                                           98WO-US007730.
                                                                                                                                                                                                                                                                                                                                                                                                                                     97US-00842675
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AAX17893 standard; DNA; 17
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                         (first entry)
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Best Local Similarity 93.35
Matches 14; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Black IA, Woodbury D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1998-594570/50
                                                                                                                                                                                                  human; probe; ss
                                                                                                                                                                                                                                         Synthetic.
Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-MAY-1999
                           05-FEB-1999
                                                                                                                                                                                                                                                                                                       WO9846737-A2
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AAX17893/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes enzymatic nucleic acid molecules (NAMs) which specifically cleave RNA derived from an epidermal growth factor receptor (EGF-R) gene. AAV9721 to AAV98043 and AAV98039 to AAV990900 represent specifically claimed target sequence from human EGF-R. AAV98044 to AAV98066 and AAV98867 to V9978 represent hammerhead ribozymes and hairpin ribozymes respectively for human EGF-R. The NAMs are useful for cleaving EGF-R RNA in the treatment of a condition associated with EGFR expression levels e.g. to inhibit cell proliferation in the prevention or treatment of cancers. The NAMs can also be used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect the presence of EGF-R RNA in a cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Enzymatic nucleic acids - which cleave RNA derived from an epidermal growth factor receptor, useful for inhibiting cell proliferation and for
                                                                                                                                                                                                                                                                                                                                                           Human, epidermal growth factor receptor; EGFR; EGF-R; target sequence;
hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;
cancer; genetic drift; detection; mutation; ss.
    Gaps
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80.0%; Pred. No. 8.7e+02;
ative 2; Mismatches 1; Indels
  Indels
                                                                                                                                                                                                                                                                                                                     Human EGF-R target sequence nucleotide position 2624.
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  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Akhtar S, Fell P, Mcswiggen JA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 5; Page 74; 109pp; English.
5
                                                                                                                                                                                         AAV97521 standard; RNA; 17 BP.
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                                           1032 TGACTTTGGCCTGGC 1046
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                                                                                                                                                                                                                                                                                (first entry)
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les 12; Conservative
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        treating cancers,
                                                                                                                                                                                                                                                                                                                                                                                                                                                       sapiens
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04-DEC-1997;
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6
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AAV69694
ID AAV69694
XX
AC AAV69694
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Gaps ô

Best Loca Matches

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New antisense oligonucleotides that target cytomegalovirus nucleic acid - particularly including 2-methoxyethoxy sugar modifications, especially for treating viral retinitis, with long-lasting retention in the retina.
Antisense, oligonucleotide, immediate early, DNA polymerase, CMV, cytomegalovirus, inhibition; replication, sugar modification, phosphorothioate, infection; retinitis, ss.
                                                                                                                                                                                         Anderson KP, Chapman S,
                                                                                                                                                                                                                                                                               Claim 7; Page 30; 99pp; English.
                                                                                                                        98WO-US006895.
                                                                                                                                              97US-00838715
                                                                                                                                                                                        Draper KG, Kisner DL,
                                                                                                                                                                  (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                              WPI; 1998-568330/48.
                                                       Human herpesvirus 5.
                                                                                                                      07-APR-1998;
                                                                            WO9845314-A1
                                                                                                                                              09-APR-1997;
                                                                                                  15-OCT-1998
                                           Synthetic
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Antisense oligonucleotides (AAX17861-X17924) are targeted to a nucleic acid (AAX17925-X17948) encoding IE (immediate early) 1 or 2, or DNA polymerase of cytomegalovirus (CMV) and are able to inhibit CMV replication. Optionally the oligonucleotides include at least one 2'-(2-methoxyethoxy) sugar modification or phosphorothhoate internucleotide inchayes. The oligonucleotides are used to inhibit CMV infections (by in vivo or in vitro contact with cells, tissues or body fluids), especially to treat or prevent CMV infections, particularly retinitis . Match 0.8%; Score 13.4; DB 1; Length 17; Local Similarity 93.3%; Pred. No. 8.7e+02; les 14; Conservative 0; Mismatches 1; Indels Sequence 17 BP; 0 A; 5 C; 3 G; 9 T; 0 U; 0 Other; Query Match

135 GAAGAAGATCAAACG 149 ઠ

Matches

16 GAAGAGAGCAAACG 2

AAA21066 standard; RNA; 17 BP. 19-JUN-2000 (first entry) AAA21066; RESULT 1448 AAA21066, 

Integrin alpha 6 subunit substrate sequence SEQ ID NO:4292.

Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic; ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARND; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma; myopic degeneration; psoriasis; verruca vulgaris; angiofibroma; tuberous sclerosis; pot-wine stain; Sturge Weber syndrome; ss. Kippel-Trenaunay-Weber syndrome; ss.

Homo sapiens

W09950403-A2

17-0CT-1999

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The present invention describes enzymatic nucleic acid molecules with RNA cleaving activity, which specifically cleave RNA encoded by an aryl nuclear transporter (ARVT) gene, an integrin submit beta 3 gene, an integrin alpha 6 submit gene, or a Tie-2 gene, AAA16775 to AAA17651 to AAA17651 to AAA17652 represent ribozyme sequences for ARNT, and AAA17651 to AAA17652 represent ribozyme sequences for AAA1369 and AAA1369 to AAA1365 to AAA17650 to AAA1369 to AAA1365 to AAA1365 to AAA1365 to AAA1365 to AAA1365 to AAA1369 to AAA1365 to AAA13622 represent their corresponding target sequences; AAA1355 to AAA21561 and AAA21561 to AAA21595 represent ribozyme sequences; AAA1355 to AAA21689 to AAA21591 to AAA21591 and AAA21591 to AAA21592 to AAA21590 and AAA21595 to AAA21569 and AAA21592 represent their corresponding target sequences; AAA21595 to AAA21592 and AAA22250 to AAA23262, AAA23343 to AAA21689 to AAA22475 and AAA22250 to AAA23262, AAA23343 to AAA23472 represent their corresponding target sequences; for integrin subunit beta 3, and AAA23476 to AAA23262, AAA23343 to AAA2169 to AAA22475 and AAA22261 to AAA23262, AAA23343 to AAA21691 their corresponding target sequences. The ribozyme sequence corresponding target sequences; the invention and warmanity are accepted for modulating target sequences. They are sepecially used to treat cancer, diabetic retinopathy, age related mecular degeneration (ARMD), inflammation, and arthritis, as well as necular degeneration (ARMD), inflammation, and arthritis, as well as necular degeneration (ARMD), inflammation, and arthritis, as well as necular degeneration (ARMD), inflammation, and arthritis, as well as necular degeneration (ARMD), inflammation, and arthritis, as well as necular degeneration (ARMD), inflammation, and arthritis, as well as necular degeneration (ARMD), inflammation, and arthritis, as well as and other syndrome, whose related to treat cancer, diabetic retinopathy, age related and diabeted to treat cancer, diabetic retinopathy, age related and other syndrome, and diabete
                                                                                                                                                                                                                                                                                                      Novel ribozymes for modulating the synthesis, expression and/or stability of an mRNA encoding an angiogenic factors.
                                                                                                                                                                                   Coeshott C, Mcswiggen JA
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                                                                                                                                                                                                                                                                                                                                                                                                 Claim 55; Page 185; 305pp; English.
                                                                                                                                                                                   Jarvis T,
   99WO-US006507.
                                                              98US-0079678P.
                                                                                                                     (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                   Pavco PA, Roberts E,
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   24-MAR-1999;
                                                          27-MAR-1998;
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Seguence 17 BP; 2 A; 0 C; 7 G; 0 T; 8 U; 0 Other;

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Gaps

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Gaps 0 0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; ative 0; Mismatches 1; Indels Local Similarity 93.3 Query Match Best Loca Matches

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16 ACACAACTACCCCAA 셤

1314 ATACAACTACCCCAA 1328

257/c AAA23257 standard; RNA; 17 BP RESULT 1449

AAA23257;

19-JUN-2000 (first entry)

Integrin subunit beta 3 substrate sequence SEQ ID NO:6483.

Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; angiogenic factor; cyrostatic; antidiabetic; ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARND; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma; myopic degeneration; psoriasis; verruca vulgaris; angiofibroma; tuberous sclerosis; por whee stain; Sturge Weber syndrome; Kippel-Trenaumay-Weber syndrome; ss. 

Homo sapiens

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The present invention describes enzymatic nucleic acid molecules with RNA cleaving activity, which specifically cleave RNA encoded by an aryl cleaving activity, which specifically cleave RNA encoded by an aryl cleaving activity, which specifically cleave RNA encoded by an aryl controlled an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to AAA1167 and AAA1766 to AAA1762 represent ribozyme sequences for AAA1767 to AAA19185 and AAA1986 to AAA1886 to AAA1886 to AAA1886 to AAA1888 to to AAA2188 to to AAA1888 to to AAA2188 to to AAA1888 to to AAA188 to to AAA1888 to to AAA288 to to AAA1888 to to AAA1888 to to to AAA1888 to to AAA1888 t
                                                                                                                                                                                                                                                                                                                                                                                                              Novel ribozymes for modulating the synthesis, expression and/or stability
                                                                                                                                                                                                                                                                                                             Coeshott C, Mcswiggen JA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              of an mRNA encoding an angiogenic factors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 54; Page 271; 305pp; English.
                                                                                                                                                                                                                                                                                                             Jarvis T,
                                                                                                                                         99WO-US006507.
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                                                                                                                                                                                                                                                (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                           Roberts E,
                                                                                                                                                                                                                                                                                                                                                               WPI; 1999-591315/50
                                                                                                                                         24-MAR-1999;
                                WO9950403-A2
                                                                                                                                                                                           27-MAR-1998;
                                                                                  07-OCT-1999.
                                                                                                                                                                                                                                                                                                        Pavco PA,
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Gaps
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Query Match 0.8%; Score 13.4; DB 1; Length 17; Best Local Similarity 93.3%; Pred. No. 8.7e+02; Matches 14; Conservative 0; Mismatches 1; Indels
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808 ATTATCCACACGGAG 822
                         16 ATTATCCAAACGGAG 2
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AAA20471 standard; RNA; 17 BP 19-JUN-2000 (first entry) AAA20471; RESULT 1450 AAA20471 

Integrin alpha 6 subunit substrate sequence SEQ ID NO:3697.

Human, aryl hydrocarbon nuclear transport, ARNT, TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme, angiogenic factor; cytostatic; antidabetic; ophthalmologic; antiinfiammatory; antiarthritic; antibsoriatic, ARND; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis, age related macular degeneration; inflammation; neovascular glaucoma;

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The present invention describes enzymatic nucleic acid molecules with RNA cleaving activity, which specifically cleave RNA encoded by an aryl cleaving activity, which specifically cleave RNA encoded by an aryl of hydrocarbon nuclear transporter (ARNY) gene, an integrin subunit beta 3 gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to and AAA1166 to AAA1766 and AAA1168 to AAA1766 to AAA1684 represent their corresponding target sequences; AAA19154 represent their corresponding target sequences; AAA19155 to AAA19222 represent their corresponding target sequences; AAA19223 to AAA2185 to AAA1922 represent their corresponding target sequences; AAA19223 to AAA2185 to AAA1922 represent their corresponding target sequences; AAA19223 to AAA2185 to AAA2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel ribozymes for modulating the synthesis, expression and/or stability of an mRNA encoding an angiogenic factors.
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                          tuberous sclerosis; pot-wine stain; Sturge Weber syndrome;
Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss
myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;
tuberous sclerosis; pot-wine stain; Sturge Weber syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ..
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.8%; Score 13.4; DB 1; Length 17; 13.3%; Pred. No. 8.7e+02; ve 6; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 17 BP; 2 A; 5 C; 3 G; 0 T; 7 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                          Jarvis T, Coeshott C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 55; Page 147; 305pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAA24802 standard; DNA; 17 BP.
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                                                                                                                                                                                                                                                                                                                                          (RIBO-) RIBOZYME PHARM INC.
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                                                                                                                                           WO9950403-A2
                                                                                              Homo sapiens
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                                                                                                                                                                                                                                                                                              27-MAR-1998;
                                                                                                                                                                                             07-OCT-1999.
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Matches
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The present invention describes nucleic acids (A) that interact stably with a target sequence and contain at least one phosphoro(dilthicate link, having endonuclease activity. (A), and more generally any catalytic nucleic acid (A') that modulates expression of the osestrogen receptor.

Some, are used to treat cancer (particularly of breast or endometrium).

In vivo or by transforming cells ex vivo and implanting treated cells, or for other conditions associated with levels of osetrogen receptor.

Because of the high selectivity for targeted RNA, (A) can also be used to correlate inhibition of gene expression with alterations in phenotype, particularly for identification of therapeutic targets, and as research regents (for RNA, in the same way that restriction endomucleases are used with DNA). The combination of modifications in (A) improves resistance to nucleases, binding affinity and/or activity. AAA2393 to AAA24747 represent osetrogen receptor harmerhead riboxyme sequences, and AAA2593 to paracologen receptor harmerhead riboxyme sequences, and AAA26107 to AAA36218 represent their corresponding target sequences and invention of the present in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                         nucleic acids that interact, and optionally cleave, target sequences,
hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;
gene expression modification; cancer; phosphorothioate; endonuclease;
anticancer; breast cancer; endometrium cancer; ss.
                                                                                                                                                                                                                                                                                                                                       Thompson JD, Beigelman L, Mcswiggen JA, Karpeisky A,
Reynolds M, Zwick M, Jarvis T, Woolf T, Haeberli P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 77; Page 58; 148pp; English.
                                                                                                                                                                                                      99WO-US008547.
                                                                                                                                                                                                                                                               98US-00103636.
                                                                                                                                                                                                                                            98US-0082404P
                                                                                                                                                                                                                                                                                                 (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 used to treat cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2000-013248/01.
                                                                                                                                                                                                                                                                                                                                                                                  Matulic-Adamic J;
                                                                                Homo sapiens
                                                                                                                      WO9954459-A2
                                                                                                                                                                                                    19-APR-1999;
                                                                                                                                                                                                                                          20-APR-1998;
                                                                                                                                                                                                                                                               23 - JUN - 1998;
                                                                                                                                                              28-OCT-1999
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Gaps . 0 0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; 1; Indels Sequence 17 BP; 5 A; 6 C; 4 G; 2 T; 0 U; 0 Other; 0; Mismatches 14; Conservative Similarity Query Match Best Local Matches

1315 TACAACTACCCCAAG 1329 TACAACTACCCCGAG 16

AAF06373 standard; DNA; 17 BP AAF06373; RESULT 1452 AAF06373 

Hammerhead ribozyme substrate #3170.

(first entry)

16-FEB-2001

Ribozyme; erythropoietin; granulocyte colony stimulating factor; interferon alpha; ss.

Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved in the production of erythropoletin, granulocyte colony stimulating factor protein and The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUB-TF1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement Protein (CPP). Inhibition of the repressors removes prevents inhibition (and Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein, interferon alpha and erythropoietin. Sequence 17 BP; 4 A; 5 C; 3 G; 0 T; 5 U; 0 Other; Mcswiggen J; Claim 42; Page 128; 164pp; English. Blatt L, Zwick M, Pavco P, 11-APR-2000; 2000WO-US009721 (RIBO-) RIBOZYME PHARM INC. WPI; 2000-647423/62. interferon alpha WO200061729-A2. Homo sapiens. 19-OCT-2000. 

Bellon L;

Query Match 0.8%; Score 13.4; DB 1; Length 17; Best Local Similarity 73.3%; Pred, No. 8.7e+02; Matches 11; Conservative 3; Mismatches 1; Indels 686 ACAACCTTGTGGCAC 700 Query Match δ

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Gaps

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||| ||:|:||||| ACAUCCUUGUGGCAC 16 ABK03332 standard; RNA; 17 RESULT 1453 **ABK03332** g

12-MAR-2002 (first entry) Human CD20 Inozyme #283. 

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ABK03332;

Gerebzoprotective, noctropic, orthogogetive, antiparkinsonian, describzoprotective, noctropic, neuroprotective, antiparkinsonian, muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme; DNAzyme; Inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leuksaemia; B-cell lymphoma; non-Hodgkin; a lymphoma; NHL; lymphocytic leuksaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCI; immunocytoma; IMC; immune thrombocytopaemia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; Parkinson's disease; ataxia; Muntington's disease; creuzzeldt-Jakob disease; muscular dystrophy; neurodegenerative disease. Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;

16-AUG-2001

09-FEB-2001; 2001WO-US004273.

Homo sapiens Synthetic.

WO200159103-A2.

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The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gane and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NOGO). The regulates expression of a neurite growth inhibitor gene (NOGO). The mother acids may be enzymatic nucleic acid cleaving a an RNA molecule possessing an NCH motif), a G-cleaver (cleaving RNA with a CD20 in the presence of a divalent cation that is preferably Mg^2+, corp. in may be contacted with a coll to reduce CD20 activity of corp. The treatment may further comprise the use of one or more chost in particular, the CD20 targetting nucleic acid may be used to creat lymphoma (NCL), immunocytoma (NNL), bulky low-grade or follicular non-cleave and inflammatory arthropathy. The NOGO-cleaved with the level of mother and inflammatory arthropathy. The NOGO-cleaved with a cell in particular, in the motificancy virus) associated NHL, mantle-cell immunocytoma (NNC), small B-cell lymphocytic lymphoma (NCL), immunocytoma (NNC), small B-cell lymphocytic lymphoma (NCL), immunocytoma (NNC), small B-cell lymphocytic lymphoma (NCC) or argetting nucleic acid may be contacted with a cell to reduce NOGO activity of the collect acid may be contacted with a cell to reduce NOGO activity of the collect and treat a patient having a condition associated with the level of the reatment may further comprise the use of one or more cell and treat a patient having a condition associated may be contacted with a cell collect acid may be contacted with a cell collect acid may be contacted with a cell collect acid with the lovel of creat central nervous system (CNS) injury and cerebrovascular ac
                                                                                                                                                                                                                                                                                                                                     Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and central nervous system injury.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sequence is an inozyme of the invention
                                                                                                                                                                                                                                                  Chowrira BM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 30; Page 150; 200pp; English.
                    11-FEB-2000; 2000US-0181797P.
28-FEB-2000; 2000US-0185516P.
06-MAR-2000; 2000US-0187128P.
                                                                                                                       RIBOZYME PHARM INC.
                                                                                                                                                                                                                                          Blatt L, Mcswiggen J,
                                                                                                                                                                                           CHOWRIRA B M.
                                                                                                                                            BLATT L.
MCSWIGGEN J.
                                                                                                                                                                                                                                                                                           WPI; 2001-607195/69
                                                                                                               (RIBO-)
                                                                                                                                         (BLAT/)
(MCSW/)
(CHOW/)
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Sequence 17 BP; 4 A; 4 C; 6 G; 0 T; 3 U; 0 Other;

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Gaps
                                     ;
0
 0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; ive 0; Mismatches 1; Indels
              Local Similarity 93.3
Query Match
Best Local Si
Matches 14;
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ABK03331 standard; RNA; 17 BP ABK03331; RESULT 1454 ABK0331/ ID ABK0 XX AC ABK0 XX DT 12-M XX XX

12-MAK-2002 (first entry)

Human CD20 Inozyme #282

Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; notropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme; DNAzyme; inozyme; genes; NOGO; hammerhead ribozyme; bnAzyme; inozyme; genes; NOGO; hammerhead ribozyme; human; mmunodeficiency virus; HIV associated NHL; lymphocytic leukaemia; human; immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; Als; Parkinson's disease; ataxia; Huntington's disease; Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

Homo sapiens. Synthetic.

WO200159103-A2.

16-AUG-2001.

09-FEB-2001; 2001WO-US004273

11-FEB-2000; 2000US-0181797P. 28-FEB-2000; 2000US-0185516P. 06-MAR-2000; 2000US-0187128P.

(RIBO-) RIBOZYME PHARM INC. (BLAT/) BLATT L. (BLAT/) BLATT L. (MCSW/) MCSWIGGEN J. (CHOW/) CHOWRIRA B M.

Chowrira BM; Blatt L, Mcswiggen J,

WPI; 2001-607195/69,

Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and central nervous system injury. 

Claim 30; Page 150; 200pp; English.

The invention relates to a nucleic acid molecule which down regulates expression of a cD20 gene and a nucleic acid molecule which down control and the control of a cD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NGGO). The nucleic acids and NGH motif), a Goleaver (Cleaving ANA with an NRN motif) proposessing an NCH motif), a Goleaver (Cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA with an NGN triplet) a zinzyme (cleaving RNA with a PGEO to the presence of a divalent cation that is preferably Mg^2+.

Furthermore, it may be contacted with a call to reduce CD20 activity of the cell and treat a patient having a condition associated with the level of CD20. The treatment may further comprise the use of one or more therapies. In particular, the CD20 targetting nucleic acid may be used to treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-Hodgin's lymphoma (NEL), immunocytoma (IMC), small B-cell lymphocytic lymphoma, leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma (IMC) argued to cleave RNA of the NOGO gene in the presence of a divalent cation that is preferably Mg^2 t. Furthermore, the call and treat a patient having a condition associated with the level of NOGO. The treatment may further comprise the use of one or more call and treat a patient having a condition associated with the level of NOGO. The treatment may further comprise the use of one or more call and treat a patient having a condition associated with the level of the reatment may further comprise the use of one or more call and treat a patient having a condition associated with the level of treat central nervous system (CNS) injury and cerebrovascular accident central Humballar disease, ataxia, Hunthiqual disease, crassed to the respond to

Human; mouse; otoferlin; OTOF; brain; auditory function; PCR primer; autosomal nonsyndromic prelingual deafness; DFNB9; ss.

Human otoferlin exon PCR primer #39.

(first entry)

13-FEB-2002

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Gaps

AAS95074;

AAS95074 standard; DNA; 17

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The present sequence is a degenerate PCR primer used for amplifying the human cell cycle checkpoint protein, hohki DNA. The cell cycle checkpoint protein, hohki DNA. The cell cycle cransitions, and enaure that critical events such as DNA replication and chromosome segregation are completed with high fidelity. The chti protein controls cell cycle in response to DNA damage. It functions as kinase and phosphorylates the key regulators of Cdk tycosine phosphorylation. The checkpoint gene sequences are used as probes for a portion of the chromosome associated with tumours and other malignancies, as well as growth and/or development deficiencies. The chkl proteins are useful for generating specific antibodies and for inhibiting growth of
                                                                                                                                                                                                                                                                                                                                                                    Human cell cycle checkpoint protein, hchkl DNA amplifying PCR primer #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New Chkl proteins and gene sequences encoding the proteins useful as probes for a portion of the chromosome associated with tumors and other malignancies, growth and/or development deficiencies.
                                                                                                                                                                                                                                                                                                                                                                                                     Human; cell cycle checkpoint; chkl; tumour; malignancy;
cell growth inhibitor; development deficiency; PCR primer; DNA damage;
                                                                 Query Match
0.8%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 8.7e+02;
Matches 14; Conservative 0; Mismatches 1; Indels
                                   Sequence 17 BP; 5 A; 4 C; 6 G; 0 T; 2 U; 0 Other;
   sequence is an inozyme of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (BAYU ) BAYLOR COLLEGE MEDICINE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 17; Col 24; 37pp; English.
                                                                                                                                                                                                                                                               AAD03853 standard; DNA; 17 BP.
                                                                                                                                        396 TGAGGTGCAGTCTCC 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97US-00924183
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                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Elledge SJ, Sanchez Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-289827/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                      02-JUL-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                         kinase; ss.
                                                                                                                                                                                                                                                                                                  AAD03853;
                                                                                                                                                                                                                             RESULT 1455
                                                                                                                                                                                                                                                AAD03853
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Novel human gene Otoferlin, underlying an autosomal recessive nonsyndromic prelingual deafness, DFNB9, and proteins encoded by the gene, implicated in deafness.

Claim 25; Page 17; 99pp; English.

Petit C;

El Amraoui A,

Cohen-Salmon M,

Yasunaga S, Grati M,

Weil D;

WPI; 2001-611499/70

(INSP ) INST PASTEUR. (CNRS ) CNRS CENT NAT RECH SCI.

23-MAR-2001; 2001WO-IB000578. 24-MAR-2000; 2000US-0191738P.

WO200170972-A2. Homo sapiens

27-SEP-2001.

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The invention relates to a purified polynuclectide (I) encoding a protein sequence (II) encoded by a novel human gene, otoferlin (OTOF) or the long human otoferlin isoform in brain. (I) was identified as underlying an autosomal nonsyndromic prelingual deafness DFNB9, and is thus useful for detecting deafness disease in humans and for characterising the functions of proteins and genes encoding them in auditory function. AAS95022-AAS95548 represent human and mouse otoferlin coding sequences, PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human, genome-derived myosin-like protein 1, GDMLP-1, hGDMLP-1, heart,
muscle, myosin, chromosome 22, gene therapy, vaccine, heart disease,
skeletal muscle disorder, amplicon, screening, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8898.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; ative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 17 BP; 2 A; 8 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     primers and related sequences of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      495 CCGCTGCCTGAGGG 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1906/c
ABN08906 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15 CAGGCTGCCTGAGGG 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABN08906;
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Gaps ö

0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; ive 0; Mismatches 1; Indels

Local Similarity

Best Loc Matches

Query Match

14;

1033 GACTTTGGCCTGGCC 1047

17 GACTTTGGCCTGTCC 3

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Sequence 17 BP; 5 A; 4 C; 5 G; 3 T; 0 U; 0 Other;

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3 11:01:46 2004
Mon May
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The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polymucleotide sequences of hGDMLP-1 can be used as probes to detect, characterise and quantify nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for carrier as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser describing deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The products sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence data for this patent did not form part of the printed recombination, but was obtained in electronic format directly from WIPO captured and succession of the present section of the printed captured and succession of the present section of the printed captured and succession of the present sections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptide, for raising antibodies that recognize hdDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser description ionization, comprises human myosin-like protein hdDMLP-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Shannon ME;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chen W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rank DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 8898; 214pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      at ftp.wipo.int/pub/published_pct_sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hanzel DK,
                                                                                                                        26-MAY-2000; 2000US-0207456P.
21-SEP-2000; 2000US-0234687P.
21-SEP-2000; 2000US-0234587P.
04-OCT-2000; 2000US-0236359P.
04-OCT-2000; 2001WO-US000661.
30-JAN-2001; 2001WO-US000662.
30-JAN-2001; 2001WO-US000663.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000669.
30-JAN-2001; 2001WO-US000669.
30-JAN-2001; 2001WO-US000669.
                                                                                    25-MAY-2001; 2001WO-US016981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gu Y, Ji Y, Penn SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-179446/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (AEOM-) AEOMICA INC.
WO200192524-A2
                                          06-DEC-2001
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Sequence 17 BP; 2 A; 9 C; 4 G; 2 T; 0 U; 0 Other;

ö Gaps .. 0 / Match 0.8%; Score 13.4; DB 1; Length 17; Local Similarity 93.3%; Pred. No. 8.7e+02; les 14; Conservative 0; Mismatches 1; Indels Best Loca Matches

165 ACTCCGAGGTGGCCG 179

Acressassing 1 15

RESULT 1458
ABNO0075/C
LD ABNO0075 standard; DNA; 17 BP.
XX
AC ABNO0075;

Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss. Human GDMLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:67. 26-MAY-2000; 2000US-0207456P.
27-SEP-2000; 2000US-0234687P.
27-SEP-2000; 2000US-0234583P.
04-OCT-2000; 2000US-0024263.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000668.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000667. 25-MAY-2001; 2001WO-US016981 (first entry) WO200192524-A2 29-MAY-2002 Homo sapiens 06-DEC-2001 

New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.

Shannon ME;

Hanzel DK, Rank DR, Chen W,

Gu Y, Ji Y, Penn SG, WPI; 2002-179446/23.

(AEOM-) AEOMICA INC.

Disclosure; SEQ ID NO 67; 214pp; English.

The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polymucleotide sequences of hGDMLP-1 claim be used in gene therapy and vaccine production. The hGDMLP-1 mucleic acids in samples, as amplification substrates to mucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for provide initial substrates for the recombinant engineering of hGDMLP-1 proteins or polypeptides may be proteins variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as specific biomolecule and/or amount specifically of hGDMLP proteins, as specific biomolecule and/or amount specifically of hGDMLP proteins, as specific biomolecule corporation, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The production and vaccines or for replacement therapy. The production and skeletal muscle disorders. hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1 may be used for diagnosing a disorder sequence represents an oligomer used in the screening of the hGDMLP-1 sequence data for the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed sequence data such published pot sequence

Sequence 17 BP; 2 A; 5 C; 3 G; 7 T; 0 U; 0 Other;

Gaps ö Query Match

0.8%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 8.7e+02;
Matches 14; Conservative 0; Mismatches 1; Indels

1181 ATGAGATGGCCACAG 1195

N

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schultz621-3.rng

Human, genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss. Human GDMLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:66. Hanzel DK, Rank DR, Chen W, 26-MAY-2000; 2000US-0207456P.
21-SEP-2000; 2000US-0234687P.
27-SEP-2000; 2000US-0236359P.
04-OCT-2000; 2000US-0026359P.
04-OCT-2000; 2000US-0000661.
30-JAN-2001; 2001WO-US000662.
30-JAN-2001; 2001WO-US000663.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000669.
30-JAN-2001; 2001WO-US000669. ABN00074 standard; DNA; 17 BP 25-MAY-2001; 2001WO-US016981 (first entry) Gu Y, Ji Y, Penn SG, WPI; 2002-179446/23. (AEOM-) AEOMICA INC. WO200192524-A2. 29-MAY-2002 Homo sapiens 06-DEC-2001 ABN00074; RESULT 1459 ABN00074 

The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polymucleotide sequences of hGDMLP-1 claim be used in gene therapy and vaccine production. The hGDMLP-1 claim be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be expressing the proteins. The hGDMLP-1 proteins or polypeptides may be and/or amount specifically of hGDMLP proteins as specific biomolecule and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser describion indistion, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The production and in vaccines of for replacement therapy. The disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1. Shannon ME; Disclosure; SEQ ID NO 66; 214pp; English.

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The present sequence represents an oligomer used in the screening of the hGDWLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
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                                                                                                                                      Query Match 0.8%; Score 13.4; DB 1; Length 17; Best Local Similarity 93.3%; Pred. No. 8.7e+02; Matches 14; Conservative 0; Mismatches 1; Indels
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21-SEE-2000; 2000US-0234687P.
27-SEE-2000; 2000US-0236359P.
04-OCT-2000; 2000US-0236359P.
30-JAN-2001; 2001WO-US000661.
30-JAN-2001; 2001WO-US000663.
30-JAN-2001; 2001WO-US000665.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000666.
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30-JAN-2001; 2001WO-US000669.
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ABN08905 standard; DNA; 17 BP
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protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP to teins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as the reapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The production with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence data for this patent did not form part of the printed specification, but was obtained in alectronic format directly from WIPO. It fip. wipo.int/pub/published_pct_sequence
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10-JAN-2001; 2001WO-US000664.
10-JAN-2001; 2001WO-US000665.
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2000US-0234687P.
2000US-0236359P.
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30-JAN-2001; 2001WO-US000661.
30-JAN-2001; 2001WO-US000662.
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The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used an gene therspy and vaccine production. The hGDMLP-1 nucleic acids in samples, as amplification substrates, to hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as specific ally recognise hGDMLP-1 proteins, as specific biomolecule and/or amount specifically of hGDMLP proteins, as specific biomolecule and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser describing in hGDMLP-1 production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The production and with the expression of hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1 may be used for chromosome 22. The present sequence represents an oligomer used in the screening of the hospitally. Requence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at fig. at ftp.wipo.int/pub/published_pct_eequence
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specific biomolecule capture probes for surface-enhanced laser
                     desorption ionization, comprises human myosin-like protein hGDMLP-1.
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                                                             Disclosure; SEQ ID NO 68; 214pp; English
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The present invention describes a human genome-derived myosin-like protein 1 (hGDMLD-1). The protein and polynucleotide sequences of hGDMLP-1 clan be used as probes to detect, characterise and quantify nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 mucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser described in onisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The adjaced sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders, hGDMLP-1 is localised to chromosome 22.

The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed by the protein but the manner of the printed forms but fo
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30-JAN-2001; 2001WO-US000669.
30-JAN-2001; 2001WO-US000670.
05-FEB-2001; 2001US-0266860P.
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                                                                                                                                     (AEOM-) AEOMICA INC.
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. 0; Gaps / Match 0.8%; Score 13.4; DB 1; Length 17; Local Similarity 93.3%; Pred. No. 8.7e+02; les 14; Conservative 0; Mismatches 1; Indels Sequence 17 BP; 2 A; 7 C; 6 G; 2 T; 0 U; 0 Other;

ABQ63456 standard; DNA; 17 BP RESULT 1463 ABQ63456/

(first entry) 20-AUG-2002 ABQ63456;

Human KTOMla portion (ABQ63232) probe # 169.

Human; KTOMla; KTOMl; kidney tumour overexpressed membrane; cytostatic; gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung; kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.

Homo sapiens

WO200224750-A2.

8-MAR-2002.

21-SEP-2001; 2001WO-US029656. 

21-SEP-2000; 2000US-0234687P.

2001WO-US000665. 2001WO-US000666. 2001WO-US000667. 2001WO-US000669. 2001WO-US000669. 23-MAY-2001; 2001US-00864761. 28-AUG-2001; 2001US-0315676P. 2001WO-US000664 30-JAN-2001; 2 

Shannon ME

Chen W,

Hanzel DK, Rank DR,

Penn SG,

(AEOM-) AEOMICA INC.

Zhang J;

WPI; 2002-479509/51.

New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic acids encoding the protein, useful for treating subjects having defects in KTOM1 which can manifest as cancer of the kidney, or as a disorder of e.g., liver or bone.

Example 2; Page 179; 418pp; English.

The invention relates to a novel isolated nucleic acid encoding human KTOM1 (kidney tumour overexpressed membrane) protein. The protein of the invention has cytostatic activity. The nucleotide may have a use in gene therapy. The KTOM1 nucleic acids may be used to diagnose, treat or monitor a disease caused by altered expression of human KTOM1. Compositions comprising the nucleic acids, proteins or antibodies may be used to treat subjects having defects in KTOM1 which can manifest as cancer of the kidney, as well as a disorder of liver, bone marrow, brain, heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta function. The sequence represents a probe used in the invention to scan function. The sequence represents a probe used i the nt 1-1001 portion of human KTOM1a (ABQ63232)

Sequence 17 BP; 5 A; 7 C; 3 G; 2 T; 0 U; 0 Other;

ö 0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; ative 0; Mismatches 1; Indels 14; Conservative Query Match Best Local Similarity Matches

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1397 AGCTGTTGCAGTTTG 1411 16 Accidirecaciere

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RESULT 1464

ABQ63457 standard; DNA; 17 BP ABQ63457

20-AUG-2002 (first entry)

ABQ63457;

Human KTOMla portion (ABQ63232) probe # 170.

Human, KTOMIa; KTOMI; kidney tumour overexpressed membrane; cytostatic; gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung; kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.

Homo sapiens.

21-SEP-2001; 2001WO-US029656.

WO200224750-A2. 

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The present invention relates to human testis expressed Patched like protein (HTPL, see ABV78759 to ABV78762 and ABB98519 to ABB98520). HTPL has two isoforms, with a few single base pair differences between the two. One of the single base pair changes introduces a premature stop codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL shares an overall structure organisation with the Patched protein. The shared structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is important in regulating male germ cell development, and the HTPL gene was maportant in regulating male germ cell development, and the HTPL, and in therapy and manufacture of a medicament for treatment or prevention of therapy and manufacture of a medicament for treatment or prevention of therapy and manufacture of a medicament for treatment or prevention of therapy and manufacture of a medicament for treatment or prevention of the such disorders include disorders of testis, or adrenal, adult and foretal liver, bone marrow, brain, kidney, lung, placenta, prostate, skeletal muscle or colon function. HTPL proteins and mucleic acids are clinically useful diagnostic markers and potenial therapeutic agents for male infertility and cancer. The present oligonucleotide was used in an example from the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and for treating subjects having defects in HTPL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2; Page 71; 718pp; English.
                                                                       30-JAN-2001; 2001WO-US000663.
30-JAN-2001; 2001WO-US000664.
30-JAN-2001; 2001WO-US000665.
30-JAN-2001; 2001WO-US000665.
30-JAN-2001; 2001WO-US000668.
30-JAN-2001; 2001WS-0080669.
23-MAY-2001; 2001US-00864761.
           28-JAN-2002; 2002EP-00001167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-676582/73.
                                                                                                                                                                                                                                                                                                                                                                                                 (AEOM-) AEOMICA INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zhan J;
           New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic acids encoding the protein, useful for treating subjects having defects in KTOM1 which can manifest as cancer of the kidney, or as a disorder of e.g., liver or bone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a novel isolated nucleic acid encoding human KTOM1 (kidney tumour overexpressed membrane) protein. The protein of the tinvention has cyrostatic activity. The nucleotide may have a use in gene therapy. The KTOM1 nucleic acids may be used to diagnose, treat or monitor a disease caused by altered expression of human KTOM1.

Compositions comprising the nucleic acids, proteins or antibodies may be used to treat subjects having defects in KTOM1 which can manifest as cancer of the kidney, as well as a disorder of liver, bone marrow, brain, heart, lung, kidney, as well as a disorder of liver, bone marrow, brain, theart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta function. The sequence represents a probe used in the invention to scan the nt 1-1001 portion of human KTOM1a (ABQ631232)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 0.8%; Score 13.4; DB 1; Length 17; Best Local Similarity 93.3%; Pred. No. 8.7e+02; Matches 14; Conservative 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2; Page 179; 418pp; English.
21-SEP-2000; 2000US-0234687P.
27-SEP-2000; 2000US-023555P.
04-OCT-2000; 2000US-023555P.
30-JAN-2001; 2001WO-US000661.
30-JAN-2001; 2001WO-US000663.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000667.
23-MAY-2001; 2001WO-US000667.
23-MAY-2001; 2001WS-US000667.
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Human, gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like procein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss.
                                                                               Gaps
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0
                                 Query Match 0.8%; Score 13.4; DB 1; Length 17; Best Local Similarity 93.3%; Pred. No. 8.7e+02; Matches 14; Conservative 0; Mismatches 1; Indels
Sequence 17 BP; 1 A; 7 C; 3 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                        Human HTPL scanning oligonucleotide SEQ ID 65.
                                                                                                                    41 CAGGAGGACCAGCAG 55
                                                                                                                                                                                                                                                        ABV78819 standard; DNA; 17
                                                                                                                                                 17 CAGGAGGAACAGCAG 3
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                                                                                                                                                                                                                                                                                                                                                                      Human, gene therapy, tumour suppressor; HTPL, chromosome 10p12.1; human testis expressed Parched like protein, testis, adrenal; liver; male germ cell development; bone marrow, brain, kidney, lung; placenta, prostate; skeletal muscle; colon, male infertility; cancer; ss.
                                         Gaps
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Human HTPL scanning oligonucleotide SEQ ID 62.

Homo sapiens EP1229046-A2

07-AUG-2002

(first entry)

03-JAN-2003

ABV78816;

ABV78816 standard; DNA; 17 BP

1397 AGCTGTTGCAGTTTG 1411 AGCTGTTGCAGTGTG 1

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Homo sapiens EP1229046-A2

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                                                                                                                                                                                                                                                                                   Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and for treating subjects having defects in HTPL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic; ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic; vulnerary; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis; tumour angiogenesis; diabetic retinopathy; macular degeneration; neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris; angiofibroma of tuberous sclerosis; port-wine stain; wound healing; Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.8%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 8.7e+02; ative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human ERG Amberzyme target sequence Seq ID No 1902.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 17 BP; 0 A; 7 C; 4 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                Example 2; Page 72; 718pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABK19255 standard; RNA; 17 BP.
                                                                                                   30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000668.
30-JAN-2001; 2001WO-US000669.
30-AXY-2001; 2001US-00864761.
09-OCT-2001; 2001US-0327898P.
                            28-JAN-2002; 2002EP-00001167
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    example from the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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                                                                                                                                                                                                (AEOM-) AEOMICA INC.
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Best Local Similarity
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                                                            30-JAN-2001;
07-AUG-2002
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AC ABK19255
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DT 09-APR-2
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Matches
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The invention relates to a nucleic acid molecule (I) which down regulates expression of an Ets-related gane (BRG). (I) is useful for treating conditions selected from cancer, lymphoma, Exing's sarcoma, melanoma, conditions selected from cancer, lymphoma, Exing's sarcoma, melanoma, relating a sarcoma, melanoma, myopic degeneration, arthritis, psoriasis, verruca neovascular glaucoma, Mippel-Trenamay-Weber syndrome, Osler-Meber-rendu syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for treating a patient having a condition associated with the level of ERG, by contacting cells of the patient with (I) under conditions suitable for the treatment. The method comprises the use of one or more therapies conditions suitable for the treatment. Leukaemia or tumour conditions suitable for the therapies such as radiation or conjunction with one or more of other therapies such as radiation or conjunction with one or more of other therapies such as radiation or conjunction with cone or more of chert therapies such as radiation or calion such as Mg2+. (I) is useful for reducing ERG activity in a cell of live presence of ERG RNA in a cell. (I) is useful for specifically cated metations within diseased cells or to detect the presence of ERG RNA in a cell. (I) is useful for specifically capaesting genes that share homology with ERG gene or ERG fusion genes. ABRX7354-ABRZ279 represent nucleic acids molecules which regulate expression of ERG, and confinent and contaction capaes in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel polynucleotide which down regulates expression of Bts-related gene, useful for treating cancer, diabetic retinopathy, macular degeneration, arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.
Osler-Weber-rendu syndrome, leukaemia; osteoporosis; DNAzyme; inozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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2; Conservative 2; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 4; Page 124; 149pp; English.
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                                                                                                                                                                                                                                                                                                                                                                       16-MAY-2001; 2001WO-US015866.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-MAY-2000; 2000US-00572021.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RIBO-) RIBOZYME PHARM INC. (GLAX ) GLAXO GROUP LID.
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                                                                                                                                                                                                     WO200188124-A2.
                                                                                                                          Homo sapiens.
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Best Local Simi
Matches 12;
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                                                                                                                                                                                                                                                                                        22-NOV-2001.
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                                                amberzyme.
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This invention describes a novel isolated nucleic acid that encodes one of three new isoforms of human pregnancy associated plasma protein E, harper-E: The products of the invention have abortive and contraceptive activity and can be used for gene therapy or in a vectine. The nucleic acid, polypeptide encoded by it, or antibody to the polypeptide can be used in pharmaceutical compositions or vaccines for preventing or aborting pregnancy. PAPP-E is used in the antenatal diagnosis of dysgenetic pregnancies. The nucleic acids are used as probes to assess the level of PAPP-E isoform mENA in chorionic villus samples, and the antibodies can be used to assess the expression levels of PAPP-E isoform proteins in chorionic villus samples, to diagnose dysgenetic pregnancies antenatally. This sequence represents an oligomer used in scanning the human PAPP-E genes described in the disclosure of the invention
PAPP-E; human; pregnancy associated plasma protein B; abortive; contraceptive; gene therapy; vaccine; pregnancy; antenatal; diagnosis; dysgenetic pregnancy; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene; Rho GTPase; signal transduction; gene expression; cancer; vaccine; gene therapy; transgenic; ss.
                                                                                                                                                                                                                                                                                                                                                                   New isolated nucleic acid encoding an isoform of human pregnancy associated plasma protein E, for preventing or aborting pregnancy
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                                                                                                                                                                           06-APR-2001; 2001US-00827998.
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                                                                                                                                                                                                                                               (GUYY/) GU Y.
(SHAN/) SHANNON M E.
                                                                                                                                                                                                                                                                                                                                     WPI; 2002-697817/75.
                                                                                                                                                                                                                                                                                                 Gu Y, Shannon ME;
                                                                                                       US2002102252-A1.
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                                                                     Homo sapiens
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                                                                                                                                         01-AUG-2002.
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The invention relates to an isolated SH3 domain (POSH)-like signalling protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino acids (SI, ABB3999), a sequence having 65% sequence identity to (SI), acids (SI), having 95% deviations, especially conservative substitutions or a fragment of the sequences comprising at least 8 contiguous amino acids. Human POSHL 1 is a proto-oncogene product that functions as an adapted protorin that interacts with Rho family small GTPases as well as downstream components of the signal transduction pathway. (I) is useful of for identifying a specific binding partner. (I) and mucleic acids (II) for identifying a specific binding partner. (I) and mucleic acids (II) caused by altered expression of human POSHL1 including disposing and caused by altered expression of human POSHL1 including disposing and creating causeful for measuring and for surveying gene expression and creating are useful for measuring and for surveying gene expression and creating creases t sequence is that of a scanning oligomorlectic useful in examples of the invention. Note: The present sequence did not form part of the printed specification, but is based on sequence information supplied to be between the part of the control of the European Patent Office
                                                                                                                                                                                                                                                                                                                        Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL-1, useful for treating disorders associated with decreased expression or activity of human POSHL1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; FOSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene; Rho GTPase; signal transduction; gene expression; cancer; vaccine; gene therapy; transgenic; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                        Example 2; SEQ ID NO 977; 60pp + Sequence Listing; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 17 BP; 2 A; 6 C; 2 G; 7 T; 0 U; 0 Other;
                               30-JAN-2001; 2001WO-US000665.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000669.
31-JAN-2001; 2001WG-US000670.
23-WAY-2001; 2001WG-0984761.
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Matches 14; Conservative
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Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL-1, useful for treating disorders associated with decreased expression or activity of human POSHL1.
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                                                   30-JAN-2001; 2001MO-US000667.
30-JAN-2001; 2001MO-US000668.
30-JAN-2001; 2001MO-US000669.
30-JAN-2001; 2001MO-US000670.
23-MAY-2001; 2001US-00864761.
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                            30-JAN-2001; 2001WO-USUUUBER.
30-JAN-2001; 2001WO-US000665.
30-JAN-2001; 2001WO-US000666.
        28-JAN-2002; 2002EP-00001165
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1451 ATCCATTCTTCCTCA 1465
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Best Local Similarity 93.3%
Matches 14; Conservative
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Human, POSHL 1, SH3 domain, POSH-like signalling protein 1; oncogene; Rho GTPase, signal transduction, gene expression; cancer; vaccine; gene therapy; transgenic; ss.

Human POSHL1 scanning oligonucleotide SEQ ID NO 978.

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The invention relates to an isolated SH3 domain (POSH) like signalling protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino acids (SI, ABBR399), a sequence having 65% sequence identity to (SI), acids (SI, ABBR399), a sequence having 65% sequence of fantity to (SI), acids (SI, ABBR399), a sequence having 65% sequence identity to (SI), acids of the sequence scomprising at least 8 contiguous amino acids. Human POSHL I is a proto-oncogene/oncogene product that functions as an adaptor protein that interacts with Rho family small GTPases as well as downstream components of the signal transduction pathway. (I) is useful for identifying a specific binding partner. (I) and nucleic acids (II) encoding (I) are useful for diagnosing monitoring disease and treating caused by altered expression of human POSHL1 including diagnosing and treating cancer, they useful in the development of vaccines and (II) is useful in gene therapy. (II) is useful for constructing microarrays which are useful for measuring and for surveying gene expression and creating transgenic non-human animals capable of producing the proteins. The present sequence is that of a scanning oligonuclectide useful in examples of the invention. Note: The present sequence did not form part of the printed specification, but is based on sequence information supplied to berwent by the European Patent Office
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                                                                                                                                                 30-JAN-2001; 2001WO-US000664.
30-JAN-2001; 2001WO-US000665.
30-JAN-2001; 2001WO-US000666.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000669.
30-JAN-2001; 2001WO-US000669.
30-JAN-2001; 2001WG-US000670.
23-YAX-2001; 2001US-00864761.
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EP1239051-A2
                                          11-SEP-2002.
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The invention relates to an isolated SH3 domain (POSH)-like signalling protein 1 (POSH1 1) polypeptide (I), comprising a sequence of 730 amino acids (SI, ABB8399), a sequence having 65$ sequence identity to (SI), (SI) having 95$ deviations, especially conservative substitutions or a fragment of the sequences comprising at least 8 contiguous amino acids. Human POSH1 is a proto-oncogene/oncogene product that functions as an adaptor protein that interacts with Rho family small Greases as well as downstream components of the signal transduction pathway. (I) is useful of for identifying a specific binding partner. (I) and nucleic acids (II) encoding (I) are useful for diagnosing, monitoring disease and treating cancer, they useful in the development of vaccines and (II) is useful in gene therapy. (II) is useful for constructing microarrays which are useful for measuring and for surveying gene expression and creating cancer, they useful in suseful for constructing microarrays which are useful for measuring and for surveying gene expression and creating present sequence is that of a scanning oligonucleotide useful in examples of the invention. Note: The present sequence did not form part of the parameth, the content of the parameth the acid on sequence information supplied to parameth.
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          Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene; Rho GTPase; signal transduction; gene expression; cancer; vaccine;
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30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000668.
30-JAN-2001; 2001WO-US000669.
30-JAN-2001; 2001WO-US000670.
23-MAY-2001; 2001US-00864761.
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                                                 gene therapy; transgenic; ss.
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                                                                                         Homo sapiens
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2001WO-US000668.
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                     Homo sapiens.
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